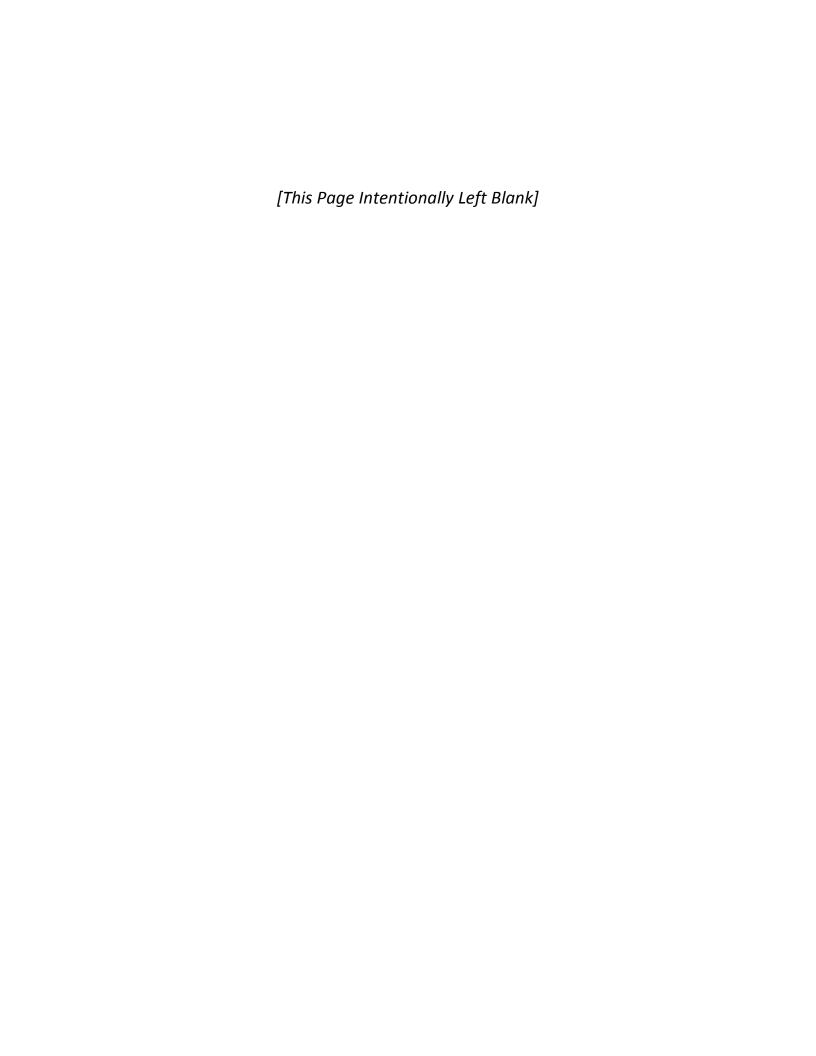
Appendix J - Notices of Intent



GWS-51 9/2016

NOTICE OF INTENT TO CONSTRUCT MONITORING HOLE(S)

SEP 2 2 2016

Please type or print legibly in black or blue ink or file online, dwrpermitsonline@state.co.us
State of Colorado, Office of the State Engineer 1313 Sherman St, Room 821,
Denver, CO 80203 Phone 303-866-3581 www.water.state.co.us

WATER RESOURCES STATE ENGINEER COLO

Well Owner Name(s): Adams County	Location: 311 14 311 14, Section 114			
Address: 4430 South Adams Parkway	Township 1 IN IS, Range 67 IE IW, 6th PM			
Phone: (720) 523-6841	County: Adams			
Email: jrutter@adcogov.com	Subdivision: Filing:			
Landowner's Name: Adams County	Site/Property Address 14451 Riverdale Rd, Brighton,			
Please check one and complete as indicated including contact info:	CO GPS Location in UTM format if known:			
☐ Water Well Driller Licensed in Colorado - Lic. No.	Set GPS unit to true north, datum NAD83, and use meters for			
Professional Engineer Registered in Colorado - Reg. No.	the distance units, Tone 12 or Tone 13.			
☑ Professional Geologist per C.R.S. 23-41-208(b)	Easting Northing			
Other — anyone directly employed by or under the supervision of a licensed driller, registered professional engineer or professional geologist	# of Monitoring Hole(s) to be constructed in ¼ ¼: 5 Estimated Depth 15 Ft., Aquifer None			
Contact / Company Chris Krajicek/Quantum Water & Environme	Emiliacea septi			
Address 1746 Cole Blvd, Suite 340	Purpose of Monitoring Hole(s) Soil testing			
City, State & Zip Lakewood, CO 80401				
Phone (303) 589-4847				
Email Chris@quantumwaterco.com	Anticipated Date of Construction:09/26/2016			
Print Name: Chris Krajicek	00/22/2016			
Signature or enter full name here:	Date Notice Submitted: 09/22/2016 (Must be at least 3 days prior to construction)			
	IGINFER S OFFICE			
ACKNOWLEDGEMENT FROM STATE EN FOR OFFICE Use ONLY DIV. WD BAS MD DAT CONDITIONS OF MONITORING HOLE AC	TE ACKNOWLEDGED 9/33/14			
FOR OFFICE USE ONLY DIV. WD BAS MD DAT CONDITIONS OF MONITORING HOLE AC A COPY OF THE WRITTEN NOTICE OR ACKNOWLEDGEMENT SHA	CKNOWLEDGEMENT ALL BE AVAILABLE AT THE DRILLING SITE.			
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GWS-51 3/2013

Well Owner Name(s):

Engineer.

NOTICE OF INTENT TO CONSTRUCT MONITORING HOLE(S)

Please type or print legibly in black or blue ink or file online @ dwrpermitsonline@state.co.us
COLORADO DIVISION OF WATER RESOURCES-1313 SHERMAN ST-STE 821-DENVER-CO-80203
PHONE: 303-866-3581---FAX: 303-866-3589 WEB: www.water.state.co.us

Location: _____ ¼ ____ ¼, Section __

Addre	ess :	Township N S, Range E W,PN
	e (area code & no.):	County
	owner's Name:	Subdivision:
Pleas	e check one and complete as indicated including contact info:	Lot: Block: Filing Unit: Site/Property Address
□Wa	ater Well Driller Licensed in Colorado – Lic. No.	Char reporty riddicese
☐ Pro	ofessional Engineer Registered in Colorado - Reg. No.	GPS Location in UTM format (optional):
☐ Pro	ofessional Geologist per CRS 34-1-201(3)	Set GPS unit to true north, datum NAD83, and use meters for the distance units, Zone 12 or Zone 13.
	her -anyone directly employed by or under the supervision of a licensed driller, red professional engineer or professional geologist	
Conta	ct / Company	Estimated Depth Ft., Aquifer
Addre	ess	
	State & Zip	
-	Fax	
Print	Name:	Date Notice Submitted (mm/dd/yyyy):
		(Must be at least 3 days prior to construction
Sign	or enter full name here:	
	For Office Usi MH	E ONLY PROCESSED BY
DIV.		DATE ACKNOWLEDGED
	CONDITIONS OF MONITORING HO	
	A COPY OF THE WRITTEN NOTICE OR ACKNOWLEDGEME	
2) C p p si re 3) A o o h c c	Notice was provided to the State Engineer at least 3 days prior to conconstruction of the hole(s) must be completed within 90 days of the pumping shall not exceed a total of 200 hours unless prior written approve thall not be used for beneficial purposes. The owner of the hole(s) is respected united by the discharge of fluids produced during testing. All work must comply with the Water Well Construction Rules, 2 CCF obtained. Standard permit application and work report forms, including or attp://www.water.state.co.us. Well Construction and Test Reports (GW contractor or authorized individual must submit the completed forms to the Unless a well permit is obtained, or variance approved, the hole(s) me construction. An Abandonment Report (form GWS-9) must be submarknowledgement number, owner's structure name, and owner's name ar	date notice was given to the State Engineer. Testing and/or all is obtained from the State Engineer. Water diverted during testing consible for obtaining permit(s) and complying with all rules and R 402-2. Minimum construction standards must be met or a variance nline filing instructions, are found on the DWR website at (S-31) must be completed for each hole drilled. The licensed is office within 60 days of monitoring hole completion. The plugged and sealed within one (1) year after suitted within 60 days of plugging & sealing. The above MH
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<i>∪,</i> I	no omno. Or the heleto, onan manitalin records or water quality testi	ing and capillit time data to the otate Engineer apon request.

THIS ACKNOWLEDGEMENT OF NOTICE DOES NOT INDICATE THAT WELL PERMIT(S) CAN BE APPROVED.

IF HOLES WILL NOT BE CONSTRUCTED UNDER THIS NOTICE WITHIN 90 DAYS, PLEASE WRITE, "NO HOLES CONSTRUCTED" ON A COPY OF THE ACKNOWLEDGED NOTICE WITH THE FILE NUMBER AND FAX THE COPY TO THE DIVISION OF WATER RESOURCES.

A MONITORING HOLE CANNOT BE CONVERTED TO A PRODUCTION WATER WELL, except for purposes of remediation (recovery) or as a permanent dewatering system, if constructed in accordance with the Water Well Construction Rules and policies of the State

GWS-51 3/2013

NOTICE OF INTENT TO CONSTRUCT MONITORING HOLE(S)

Please type or print legibly in black or blue ink or file online @ dwrpermitsonline@state.co.us

COLORADO DIVISION OF WATER RESOURCES-1313 SHERMAN ST-STE 821-DENVER-CO

PHONE: 303-866-3581---FAX: 303-866-3589 WEB: www.water.state.co.us

Well Owner Name(s): Adams County	Location: 544 /4, Section 14				
Address: 4430 South Adams County Parkway	Township 1 □N ⊠S, Range 67 □E ☑W, 6th PM				
Phone (area code & no.): 720-523-6003 Landowner's Name: Adams County Please check one and complete as indicated including contact info: Water Well Driller Licensed in Colorado – Lic. No. Professional Engineer Registered in Colorado – Reg. No. 39739 Professional Geologist per CRS 34-1-201(3)	County Adams Subdivision: Lot: Block: Filing Unit: Site/Property Address 14451 Riverdale Rd, Brighton, CO GPS Location in UTM format (optional): Set GPS unit to true north, datum NAD83, and use meters for the distance units, Zone 12 or Zone 13. Easting Northing # of Monitoring Hole(s) to be constructed: 15 - 20 Estimated Depth 10				
Other -anyone directly employed by or under the supervision of a licensed driller, registered professional engineer or professional geologist Contact / Company John Dellaport / Quantum Water & Env. Address 1746 Cole Blvd Suite 340 City, State & Zip Lakewood, CO 80401					
Phone 720-524-4294 Fax Print Name: John C. Dellaport Sign or enter full name here: ALL Dellaport	Anticipated Date of Construction (mm/dd/yyyy) 05/16/2010 Date Notice Submitted (mm/dd/yyyy): 05/12/2016 (Must be at least 3 days prior to construction)				
ACKNOWLEDGEMENT FROM STATE	ENGINEER'S OFFICE				

				For Office	CE USE ONLY	1/19 (== 0
		055372		MH	PROCESSED BY	h Subble Rights
Div.	1	WD 2	Bas	MD	DATE ACKNOWLE	OGED 5/17/12

CONDITIONS OF MONITORING HOLE ACKNOWLEDGEMENT

A COPY OF THE WRITTEN NOTICE OR ACKNOWLEDGEMENT SHALL BE AVAILABLE AT THE DRILLING SITE.

- Notice was provided to the State Engineer at least 3 days prior to construction of monitoring & observation hole(s).
- Construction of the hole(s) must be completed within 90 days of the date notice was given to the State Engineer. Testing and/or pumping shall not exceed a total of 200 hours unless prior written approval is obtained from the State Engineer. Water diverted during testing shall not be used for beneficial purposes. The owner of the hole(s) is responsible for obtaining permit(s) and complying with all rules and regulations pertaining to the discharge of fluids produced during testing.
- All work must comply with the Water Well Construction Rules, 2 CCR 402-2. Minimum construction standards must be met or a variance obtained. Standard permit application and work report forms, including online filling instructions, are found on the DWR website at http://www.water.state.co.us. Well Construction and Test Reports (GWS-31) must be completed for each hole drilled. The licensed contractor or authorized individual must submit the completed forms to this office within 60 days of monitoring hole completion.
- Unless a well permit is obtained, or variance approved, the hole(s) must be plugged and sealed within one (1) year after construction. An Abandonment Report (form GWS-9) must be submitted within 60 days of plugging & sealing. The above MH acknowledgement number, owner's structure name, and owner's name and address must be provided on all well permit application(s), well construction and abandonment reports.
- The owner of the hole(s) shall maintain records of water quality testing and submit this data to the State Engineer upon request.
- A MONITORING HOLE CANNOT BE CONVERTED TO A PRODUCTION WATER WELL, except for purposes of remediation (recovery) or as a permanent dewatering system, if constructed in accordance with the Water Well Construction Rules and policies of the State Engineer.
- IF HOLES WILL NOT BE CONSTRUCTED UNDER THIS NOTICE WITHIN 90 DAYS, PLEASE WRITE, "NO HOLES CONSTRUCTED" ON A 7) COPY OF THE ACKNOWLEDGED NOTICE WITH THE FILE NUMBER AND FAX THE COPY TO THE DIVISION OF WATER RESOURCES.

THIS ACKNOWLEDGEMENT OF NOTICE DOES NOT INDICATE THAT WELL PERMIT(S) CAN BE APPROVED.



Location: SW % SW %, Section 14

GWS-51 3/2013

NOTICE OF INTENT TO CONSTRUCT MONITORING HOLE(S) JUL 08 2016

Please type or print legibly in black or blue ink or file online @ dwrpermitsonline@state.co.us

COLORADO DIVISION OF WATER RESOURCES-1313 SHERMAN ST-STE 821-DENVER-CO-80203 RESOURCES PHONE: 303-866-3581--FAX: 303-866-3589 WEB: www.water.state.co.us

Well Owner Name(s): Adams County	Location: 3vv
Address : 4430 South Adams Parkway	Township 1 N S, Range 67 TE W, 6th PM
Phone (area code & no.): 720-523-6003	County Adams
Landowner's Name: Adams County	Subdivision: Block: Filing Unit:
Please check one and complete as indicated including contact info:	Site/Property Address 14451 Riverdale Rd., Brighton
☐ Water Well Driller Licensed in Colorado – Lic. No.	and the street is titled to make the street.
Professional Engineer Registered in Colorado – Reg. No. 39739	GPS Location in UTM format (optional): Set GPS unit to true north, datum NAD83, and use meters for
☐ Professional Geologist per CRS 34-1-201(3) ☐ Other -anyone directly employed by or under the supervision of a licensed driller,	the distance units, Zone 12 or Zone 13.
registered professional engineer or professional geologist	# of Monitoring Hole(s) to be constructed: 5
Contact / Company John Dellaport / Quantum Water & Env.	Estimated Depth 40 Ft., Aquifer Denver
Address 1746 Cole Blvd Suite 340	Purpose of Monitoring Hole(s) groundwater monitoring
City, State & Zip Lakewood, CO 80401	
Phone 720-524-4294 Fax	07/12/2016
Print Name: John C. Dellaport	Date Notice Submitted (mm/dd/yyyy): 07/08/2016
	(Must be at least 3 days prior to construction)
Sign or enter full name here:	
ACKNOWLEDGEMENT FROM STA FOR OFFICE USI - MH	PROCESSED BY
055621 FOR OFFICE USI	DATE ACKNOWLEDGED DATE ACKNOWLEDGEMENT INT SHALL BE AVAILABLE AT THE DRILLING SITE. Instruction of monitoring & observation hole(s). date notice was given to the State Engineer. Testing and/or all is obtained from the State Engineer. Water diverted during testing ponsible for obtaining permit(s) and complying with all rules and R 402-2. Minimum construction standards must be met or a variance inline filing instructions, are found on the DWR website at WS-31) must be completed for each hole drilled. The licensed is office within 60 days of monitoring hole completion. Insulted within 60 days of plugging & sealing. The above MH and address must be provided on all well permit application(s), well ling and submit this data to the State Engineer upon request. DN WATER WELL, except for purposes of remediation (recovery)
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GWS-51 3/2013

NOTICE OF INTENT TO CONSTRUCT MONITORING HOLE(S)

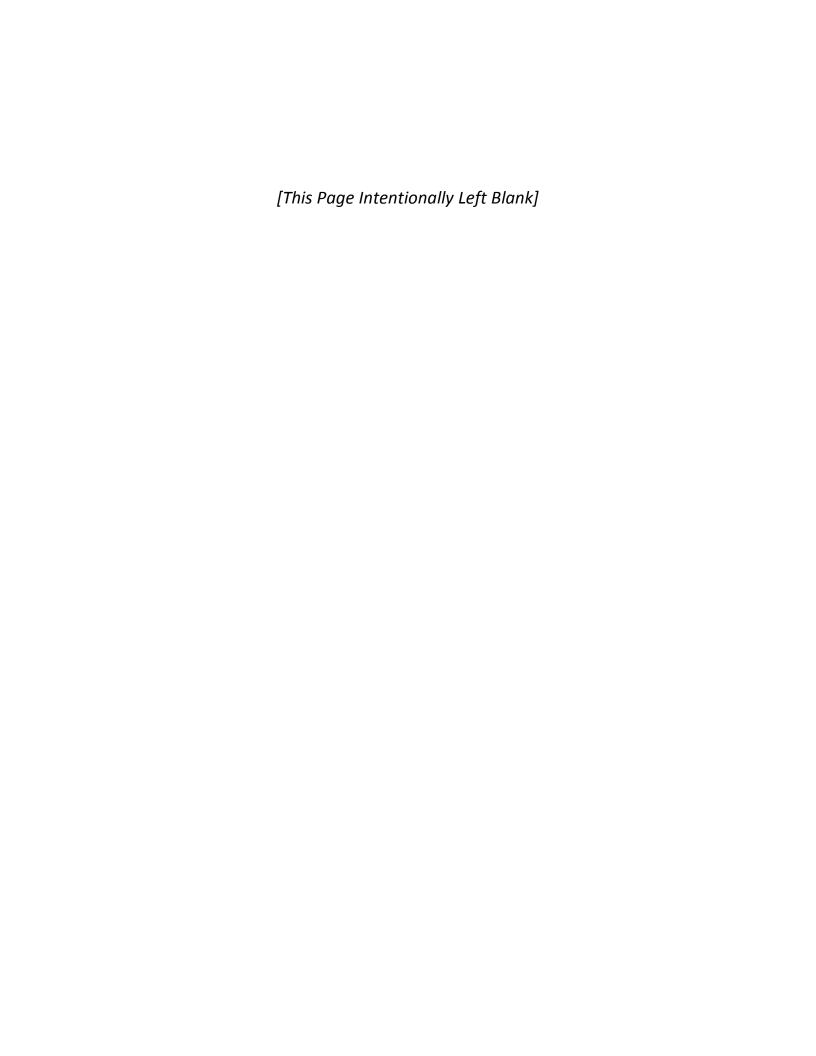
JUL 05 2016

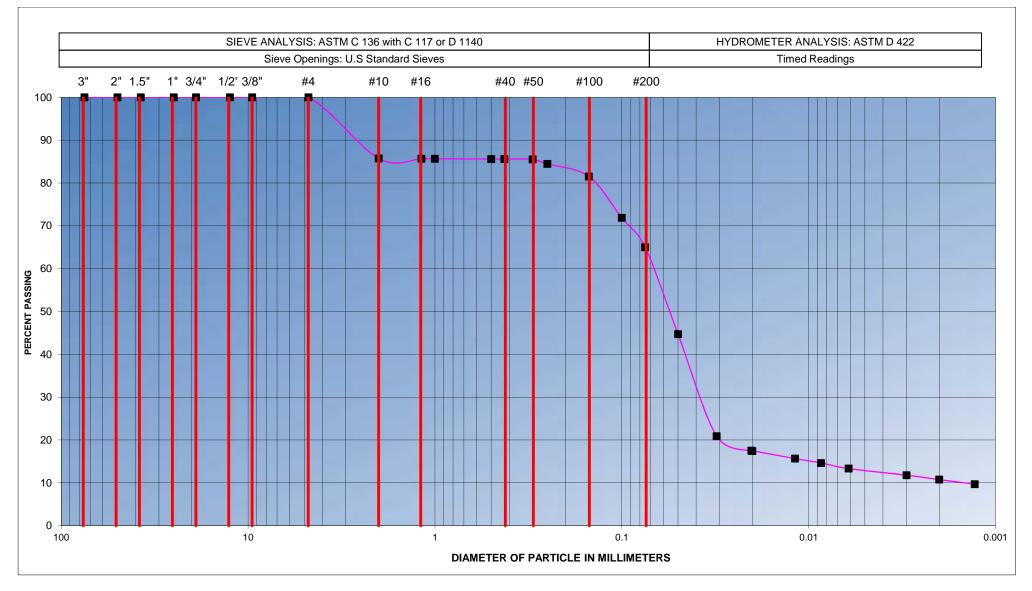
Please type or print legibly in black or blue ink or file online @ dwpermitsonline@state.co.us

Please type or print legibly in black or blue ink or file online to gwipering the second colorado Division of Water Resources-1313 SHERMAN ST-STE 821-DENVER-CO-WATER RESOURCES-1313 SHERMAN ST-STE 821-DENVER-CO-WATER RES STATE FACTOR OF

Wall Owner Name(s): Addilla Codilly	Location: SW 1/4 SW 1/4, Section 14					
Well Owner Name(s): Adams County Address: 4430 South Adams Parkway	Township 1 □N ☑S, Range 67 □E ☑W, 6TH PM					
Phone (area code & no.): 720-523-6003	County Adams					
Landowner's Name: Adams County	Subdivision: Filing Unit:					
Please check one and complete as indicated including contact info:						
Water Well Driller Licensed in Colorado – Lic. No.	Site/Property Address 14451 Riverdale Rd., Brighton, CO					
Professional Engineer Registered in Colorado – Reg. No. 39739	GPS Location in UTM format (optional):					
☐ Professional Geologist per CRS 34-1-201(3)	Set GPS unit to true north, datum NAD83, and use meters for the distance units, [Zone 12 or L Zone 13.					
Other -anyone directly employed by or under the supervision of a licensed driller,	Easting Northing					
registered professional engineer or professional geologist	# of Monitoring Hole(s) to be constructed: 5					
Contact / Company John Dellaport / Quantum Water & Env.	Estimated Depth 25 Ft., Aquifer Denver					
Address 1746 Cole Blvd Suite 340	Purpose of Monitoring Hole(s) <u>water level monitoring</u>					
City, State & Zip Lakewood, CO 80401	07/09/2016					
Phone 720-524-4294 Fax	Anticipated Date of Construction (mm/dd/yyyy) 07/08/2016					
Print Name: John C. Dellaport	Date Notice Submitted (mm/dd/yyyy): 07/05/2016					
Sign or enter full name here: Ash C. Dellaport	(Must be at least 3 days prior to construction)					
Sign or enter full name here: How 2. Decreptor						
ACKNOWLEDGEMENT FROM STATE ENGINEER'S OFFICE FOR OFFICE USE ONLY - MH PROCESSED BY DATE ACKNOWLEDGED CONDITIONS OF MONITORING HOLE ACKNOWLEDGEMENT A COPY OF THE WRITTEN NOTICE OR ACKNOWLEDGEMENT SHALL BE AVAILABLE AT THE DRILLING SITE. 1) Notice was provided to the State Engineer at least 3 days prior to construction of monitoring & observation hole(s). 2) Construction of the hole(s) must be completed within 90 days of the date notice was given to the State Engineer. Testing and/or pumping shall not exceed a total of 200 hours unless prior written approval is obtained from the State Engineer. Water diverted during testing shall not exceed a total of 200 hours unless prior written approval is obtained from the State Engineer. Water diverted during testing shall not be used for beneficial purposes. The owner of the hole(s) is responsible for obtaining permit(s) and complying with all rules and regulations pertaining to the discharge of fluids produced during testing. 3) All work must comply with the Water Well Construction Rules, 2 CCR 402-2. Minimum construction standards must be met or a variance obtained. Standard permit application and work report forms, including online filling instructions, are found on the DWR website at http://www.water.state.en.us . Well Construction and Test Reports (GWS-31) must be completed for each hole drilled. The licensed contractor or authorized individual must submit the completed forms to this office within 60 days of monitoring hole completion. 4) Unless a well permit is obtained, or variance approved, the hole(s) must be plugged and sealed within one (1) year after						
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CONDITIONS OF MONITORING HOLE ACT ACOPY OF THE WRITTEN NOTICE OR ACKNOWLEDGEMENT SHOULD ACCEPT THE WRITTEN NOTICE OR ACKNOWLEDGEMENT SHOULD	CKNOWLEDGEMENT ALL BE AVAILABLE AT THE DRILLING SITE. Ition of monitoring & observation hole(s). Ition of monitoring hole completed during testing testing testing testing testing testing with all rules and Iting instructions, are found on the DWR website at must be completed for each hole drilled. The licensed testing the interest testing hole completion. It plugged and sealed within one (1) year after within 60 days of plugging & sealing. The above MH ress must be provided on all well permit application(s), well disubmit this data to the State Engineer upon request.					
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CONDITIONS OF MONITORING HOLE ACT ACOPY OF THE WRITTEN NOTICE OR ACKNOWLEDGEMENT SHOULD BE ACT OF THE WRITTEN NOTICE OR ACKNOWLEDGEMENT SHOULD BE ACT OF THE WRITTEN NOTICE OR ACKNOWLEDGEMENT SHOULD BE ACT OF THE WRITTEN NOTICE OR ACKNOWLEDGEMENT SHOULD BE ACT OF THE WRITTEN NOTICE OR ACKNOWLEDGEMENT SHOULD BE ACKNOWLEDGEMENT SHO	CKNOWLEDGEMENT ALL BE AVAILABLE AT THE DRILLING SITE. Ition of monitoring & observation hole(s). Ition of monitoring hole completed during testing with all rules and Iting instructions, are found on the DWR website at must be completed for each hole drilled. The licensed within 60 days of monitoring hole completion. It plugged and sealed within one (1) year after within 60 days of plugging & sealing. The above MH ress must be provided on all well permit application(s), well disubmit this data to the State Engineer upon request. If ER WELL, except for purposes of remediation (recovery)					
CONDITIONS OF MONITORING HOLE ACT A COPY OF THE WRITTEN NOTICE OR ACKNOWLEDGEMENT SHOULD ACT COnstruction of the hole(s) must be completed within 90 days of the date in pumping shall not exceed a total of 200 hours unless prior written approval is obtined be used for beneficial purposes. The owner of the hole(s) is responsible regulations pertaining to the discharge of fluids produced during testing. 3) All work must comply with the Water Well Construction Rules, 2 CCR 402-2 obtained. Standard permit application and work report forms, including online fill http://www.water.state.co.us . Well Construction and Test Reports (GWS-31) in contractor or authorized individual must submit the completed forms to this office. 4) Unless a well permit is obtained, or variance approved, the hole(s) must be construction. An Abandonment Report (form GWS-9) must be submitted we acknowledgement number, owner's structure name, and owner's name and address construction and abandonment reports. 5) The owner of the hole(s) shall maintain records of water quality testing and or as a permanent dewatering system, if constructed in accordance with the Engineer. 7) IF HOLES WILL NOT BE CONSTRUCTED UNDER THIS NOTICE WITHIN 90 DAYS.	CKNOWLEDGEMENT ALL BE AVAILABLE AT THE DRILLING SITE. Ition of monitoring & observation hole(s). Itotice was given to the State Engineer. Testing and/or lained from the State Engineer. Water diverted during testing er for obtaining permit(s) and complying with all rules and India instructions, are found on the DWR website at must be completed for each hole drilled. The licensed within 60 days of monitoring hole completion. In plugged and sealed within one (1) year after within 60 days of plugging & sealing. The above MH ress must be provided on all well permit application(s), well desubmit this data to the State Engineer upon request. TER WELL, except for purposes of remediation (recovery) he Water Well Construction Rules and policies of the State S, PLEASE WRITE, "NO HOLES CONSTRUCTED" ON A					
CONDITIONS OF MONITORING HOLE ACT A COPY OF THE WRITTEN NOTICE OR ACKNOWLEDGEMENT SHOULD Notice was provided to the State Engineer at least 3 days prior to construct Construction of the hole(s) must be completed within 90 days of the date in pumping shall not exceed a total of 200 hours unless prior written approval is obting shall not be used for beneficial purposes. The owner of the hole(s) is responsible regulations pertaining to the discharge of fluids produced during testing. 3) All work must comply with the Water Well Construction Rules, 2 CCR 402-2 obtained. Standard permit application and work report forms, including online file http://www.water.state.co.us . Well Construction and Test Reports (GWS-31) in contractor or authorized individual must submit the completed forms to this office. 4) Unless a well permit is obtained, or variance approved, the hole(s) must be construction. An Abandonment Report (form GWS-9) must be submitted we acknowledgement number, owner's structure name, and owner's name and address construction and abandonment reports. 5) The owner of the hole(s) shall maintain records of water quality testing and or as a permanent dewatering system, if constructed in accordance with the Engineer.	CKNOWLEDGEMENT ALL BE AVAILABLE AT THE DRILLING SITE. Ition of monitoring & observation hole(s). Itotice was given to the State Engineer. Testing and/or tained from the State Engineer. Water diverted during testing te for obtaining permit(s) and complying with all rules and Indiamum construction standards must be met or a variance in instructions, are found on the DWR website at must be completed for each hole drilled. The licensed within 60 days of monitoring hole completion. Indiamum construction standards must be met or a variance in instructions, are found on the DWR website at must be completed for each hole drilled. The licensed within 60 days of monitoring hole completion. In plugged and sealed within one (1) year after within 60 days of plugging & sealing. The above MH ress must be provided on all well permit application(s), well desubmit this data to the State Engineer upon request. TER WELL, except for purposes of remediation (recovery) he Water Well Construction Rules and policies of the State in Water Well Construction Rules and policies of the State in Water Well Construction of Water Resources.					

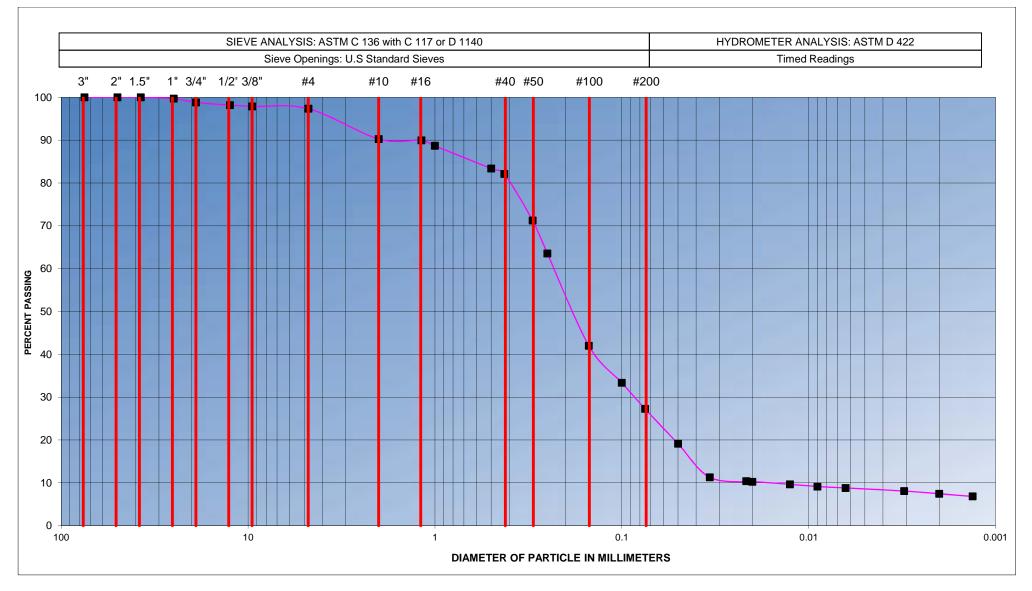
Appendix K - Soil Geotechnical Reports





BBLE	Coarse	Fine	Coarse	Medium	Fine	SILT	¥
8	GRA	AVEL		SAND		SILI	- 5

	Gravel 0%	Sand	35%	Silt and Clay	65%	GROUND ENGINEERING CONSULTANTS
From: AC-SB-21, 11:20 8/24/2016						GRADATION TEST RESULTS
F10111. AC-3B-21, 11.20 6/24/2010						JOB NO.: 16-1163
					•	FIGURE: 3984



BBLE	Coarse	Fine	Coarse	Medium	Fine	SILT	¥
8	GRA	AVEL		SAND		SILI	- 5

	Gravel	3%	Sand	70%	Silt and Clay	27%	GROUND ENGINEERING CONSULTANTS
From: AC-SB-10 15:27 8/24/2016							GRADATION TEST RESULTS
F10III. AC-3B-10 13.27 8/24/2010							JOB NO.: 16-1163
				•		•	FIGURE: 3985



June 29, 2016

Subject: Laboratory Testing, Delivered Soil / Aggregate Sample, Quantum Water Lab Testing

Job No. 16-1163

Mr. John Dellaporte **Quantum Water & Environment**1746 Cole Blvd, Suite 340

Lakewood, CO 80401

Dear Mr. Dellaporte,

As requested, analytical testing was completed on four samples of soil – aggregate mixture delivered to our laboratory by your representative. The following testing was completed in general accordance with the respective standard; Aggregate Gradation (ASTM C 136).

The results of the testing have been attached.

If you have any questions regarding this data, please do not hesitate to contact our office.

GROUND ENGINEERING CONSULTANTS, INC.

Sincerely,

Nick Andrade

Laboratory Supervisor



GRADATION PROPERTIES

Project: Quantum Water Lab Testing

Job Number: 16-1163

Date: July 29, 2016

Reported to: Quantum Water & Environment

Attn: John Dellaporte

Sample Information

Sample Number: 3778

Sample Location: Sample Delivered by Client

Aggregate Identification: AC-SB-10

Date Sampled: 7/22/2016

Sampled By: Quantum Water Representative

Gradation Analysis

Passing
(%)
100
100
100
100
100
99
99
98
98
97
95
81
64
28
17.4

Fax:(303)289 1686



ENGINEERING CONSULTANTS

GRADATION PROPERTIES

Project: Quantun Water Lab Testing

Job Number: 16-1163

Date: July 29, 2016

Reported to: Quantum Water & Environment

Attn: John Dellaporte

Sample Information

Sample Number: 3779

Sample Location: Sample Delivered by Client

Aggregate Identification: AC-SB-21

Date Sampled: 7/22/2016

Sampled By: Quantum Water Representative

Gradation Analysis

Sieve Size	Passing
(opening)	(%)
4"	100
3 1/2"	100
2"	100
1 1/2"	100
1"	100
3/4"	100
1/2"	100
3/8"	100
#4	100
#10	100
#16	99
#40	94
#50	86
#100	64
#200	49.6

Fax:(303)289 6742



GRADATION PROPERTIES

Project: Quantun Water Lab Testing

Job Number: 16-1163

Date: July 29, 2016

Reported to: Quantum Water & Environment

Attn: John Dellaporte

Sample Information

Sample Number: 3780

Sample Location: Sample Delivered by Client

Aggregate Identification: AC-SB-40

Date Sampled: 7/22/2016

Sampled By: Quantum Water Representative

Gradation Analysis

Sieve Size	Passing
(opening)	(%)
4"	100
3 1/2"	100
2"	100
1 1/2"	100
1"	99
3/4"	98
1/2"	97
3/8"	97
#4	96
#10	92
#16	90
#40	. 83
#50	77
#100	62
#200	49.2



GRADATION PROPERTIES

Project: Quantun Water Lab Testing

Job Number: 16-1163

Date: July 29, 2016

Reported to: Quantum Water & Environment

Attn: John Dellaporte

Sample Information

Sample Number: 3781

Sample Location: Sample Delivered by Client

Aggregate Identification: AC-SB-42

Date Sampled: 7/22/2016

Sampled By: Quantum Water Representative

Gradation Analysis

Sieve Size	Passing
(opening)	(%)
4"	100
3 1/2"	100
2"	100
1 1/2"	100
1"	100
3/4"	100
1/2"	99
3/8"	99
#4	99
#10	98
#16	98
#4 0	96
#50	94
#100	85
#200	70.5



June 27, 2016

Subject: Laboratory Testing, Delivered Soil / Aggregate Sample, Quantum Water Lab Testing

Job No. 16-1163

Mr. John Dellaporte **Quantum Water & Environment**1746 Cole Blvd, Suite 340

Lakewood, CO 80401

Dear Mr. Dellaporte,

As requested, analytical testing was completed on one sample of soil – aggregate mixture delivered to our laboratory by your representative. The following testing was completed in general accordance with the respective standards; Aggregate Gradation (ASTM C 136) and Atterberg Limits (ASTM D 4318).

The results of the testing have been attached.

If you have any questions regarding this data, please do not hesitate to contact our office.

GROUND ENGINEERING CONSULTANTS, INC.

Sincerely,

Nick Andrade

Laboratory Supervisor



ENGINEERING CONSULTANTS

GRADATION PROPERTIES

Project: Quantun Water Lab Testing

Job Number: 16-1163

Date: June 27, 2016

Reported to: Quantum Water & Environment

Attn: John Dellaporte

Sample Information

Sample Number: 3605

Sample Location: Sample Delivered by Client

Aggregate Identification: 061716-0-12

Date Sampled: 6/17/2016

Sampled By: Quantum Water Representative

Gradation Analysis

Sieve Size	Passing
(opening)	(%)
4"	100
3 1/2"	95
2"	76
1 1/2"	71
1"	66
3/4"	61
1/2"	53
3/8"	50
#4	43
#8	35
#16	28
#30	14
#50	10
#100	6
#200	4.5
Liquid Limit:	28
Plasticity Index:	6

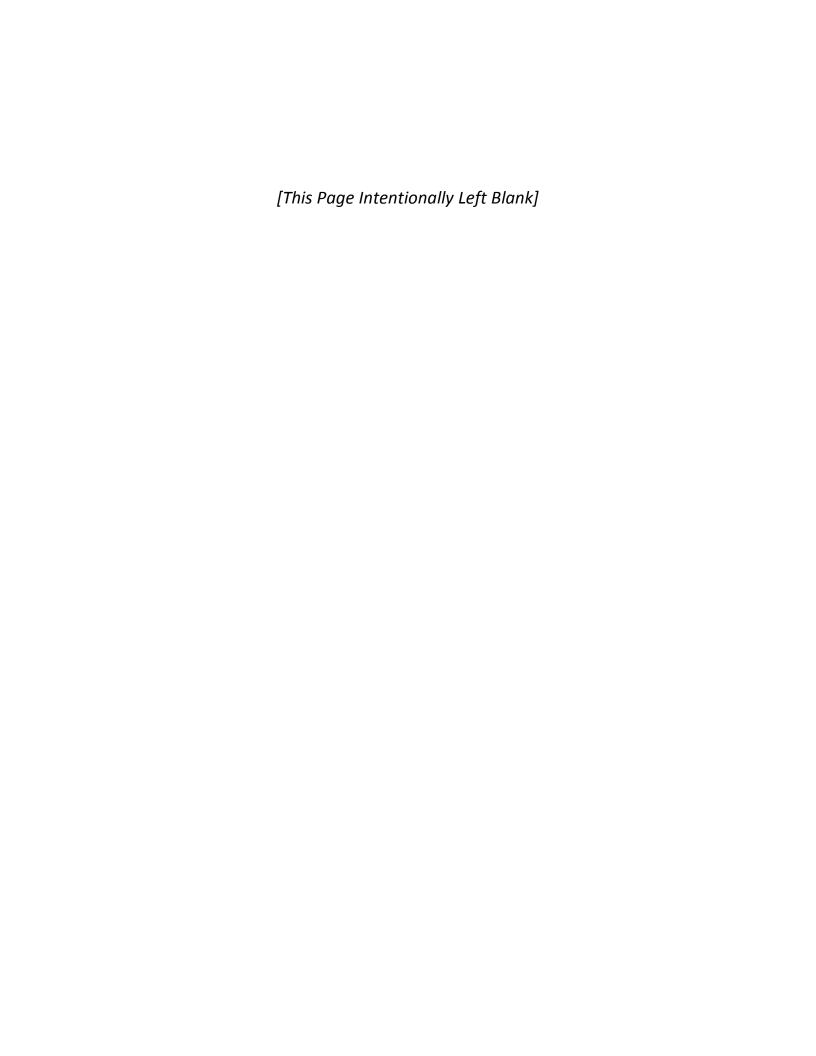
Classification: USCS: (GP)s AASHTO: A-1-6

11 Inverness Dr East Englewood, CO 80112 Fel:(303)289 1989 Fax:(303)289 1686

Offices: Denver, Loveland, Western Slope, Granby, Casper WY

North Denver 7393 Dahlia Street Commerce City, CO 80022 Tel:(303)289 1989 Fax:(303)289 6742

Appendix L - Appendix IA and IB Constituents



APPENDIX I FOR DETECTION MONITORING APPENDIX IA

GENERAL GROUND WATER QUALITY INDICATOR PARAMETERS

CATIONS

MAGNESIUM

SODIUM

POTASSIUM

CALCIUM

ANIONS

CARBONATE

BICARBONATE

CHLORIDE

SULFATE

NITRITE

NITRATE

FIELD PARAMETERS

PΗ

SPECIFIC CONDUCTIVITY

TEMPERATURE

TOTAL ORGANIC CARBON

APPENDIX IB

CAS **COMMON NAME** NUMBER **INORGANIC CONSTITUENTS** (1) ANTIMONY (TOTAL) (2) ARSENIC (TOTAL) (3) BARIUM (TOTAL) (4) BERYLLIUM (TOTAL) (5) CADMIUM (TOTAL) (6) CHROMIUM (TOTAL) (7) COBALT (TOTAL) (8) COPPER (TOTAL) (9) LEAD (TOTAL) (10) NICKEL (TOTAL) (11) SELENIUM (TOTAL) (12) SILVER (TOTAL) (13) THALLIUM (TOTAL)

(14) VANADIUM (TOTAL)	
(15) ZINC (TOTAL)	
ORGANIC CONSTITUENTS:	
(16) ACETONE	67-64-1
(17) ACRYLONITRILE	107-13-1
(18) BENZENE	71-43-2
(19) BROMOCHLOROMETHANE	74-97-5
(20) BROMODICHLOROMETHANE	75-27-4
(21) BROMOFORM; TRIBROMOMETHANE	75-25-2
(22) CARBON DISULFIDE	75-15-0
(23) CARBON TETRACHLORIDE	56-23-5
(24) CHLOROBENZENE	108-90-7
(25) CHLOROETHANE; ETHYL CHLORIDE	75-00-3
(26) CHLOROFORM; TRICHLOROMETHANE	67-66-3
(27) DIBROMOCHLOROMETHANE;	
CHLORODIBROMOMETHANE	124-48-1
(28) 1,2-DIBROMO-3-CHLOROPROPANE; DBCP	96-12-8
(29) 1,2-DIBROMOETHANE; ETHYLENE DIBROMIDE;	
EDB	106-93-4
(30) O-DICHLOROBENZENE; 1,2-DICHLOROBENZENE	
(6.1) = 5.10.111	95-50-1
(31) P-DICHLOROBENZENE; 1,4-DICHLOROBENZENE	106-46-7
(32) TRANS-1,4-DICHLORO-2-BUTENE	110-57-6
(33) 1,1-DICHLOROETHANE; ETHYLIDENE CHLORIDE	75-34-3
(34) 1,2-DICHLOROETHANE; ETHYLENE DICHLORIDE	107-06-2
(35) 1,1-DICHLOROETHYLENE;	75.05.4
1,1-DICHLOROETHENE; VINYLIDEN CHLORIDE	75-35-4
(36) CIS-1,2-DICHLOROETHYLENE;	450 50 0
CIS-1,2-DICHLOROETHENE	156-59-2
(37) TRANS-1,2-DICHLOROETHYLENE; TRANS-1,2-DICHLOROETHENE	456 60 F
(38) 1,2-DICHLOROPROPANE; PROPYLENE	156-60-5
DICHLORIDE	78-87-5
(39) CIS-1,3-DICHLOROPROPENE	10061-01-5
(40) TRANS-1,3-DICHLOROPROPENE	10061-01-5
(41) ETHYLBENZENE	100-41-4
(42) 2-HEXANONE; METHYL BUTYL KETONE	591-78-6
(43) METHYL BROMIDE; BROMOMETHANE	74-83-9
(44) METHYL CHLORIDE; CHLOROMETHANE	74-87-3
(45) METHYLENE BROMIDE; DIBROMOMETHANE	74-95-3
(46) METHYLENE CHLORIDE; DICHLOROMETHANE	75 - 09-2
(47) METHYL ETHYL KETONE; MEK; 2-BUTANONE	78-93-3
(48) METHYL IODIDE: IODOMETHANE	74-88-4

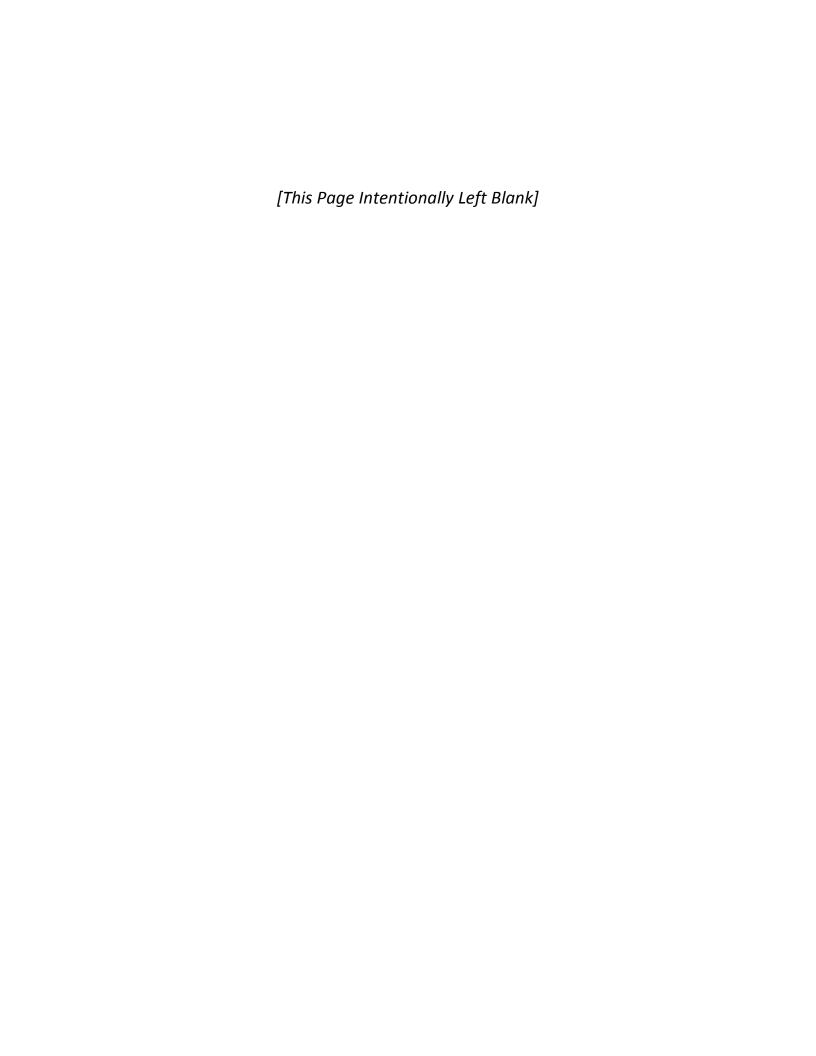
(49) 4-METHYL-2-PENTANONE; METHYL ISOBUTYL	
KETONE	108-10-1
(50) STYRENE	100-42-5
(51) 1,1,1,2-TETRACHLOROETHANE	630-20-6
(52) 1,1,2,2-TETRACHLOROETHANE	79-34-5
(53) TETRACHLOROETHYLENE;	
TETRACHLOROETHENE PERCHLOROETHYLENE	127-18-4
(54) TOLUENE	108-88-3
(55) 1,1,1-TRICHLOROETHANE;	
METHYLCHLOROFORM	71-55-6
(56) 1,1,2-TRICHLOROETHANE	79-00-5
(57) TRICHLOROETHYLENE; TRICHLOROETHENE	79-01-6
(58) TRICHLOROFLUOROMETHANE; CFC-11	75-69-4
(59) 1,2,3-TRICHLOROPROPANE	96-18-4
(60) VINYL ACETATE	108-05 - 4
(61) VINYL CHLORIDE	75-01-4
(62) XYLENES	1330-20-7

This list contains 47 volatile organics for which possible analytical procedures provided in EPA report SW-846 "Test Methods for Evaluating Solid Waste," third edition, November 1986, as revised December 1987, includes method 8260; and 15 metals for which SW-846 provides either method 6010 or a method from the 7000 series of methods.

Common names are those widely used in government regulations, scientific publications, and commerce; synonyms exist for many chemicals.

Cas number = Chemical Abstracts Service registry number.

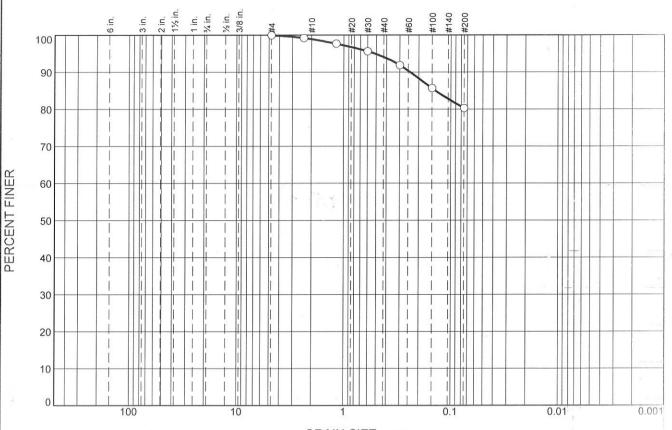
Appendix M - Sludge Geotechnical Report





These test results apply only to the samples which were tested, the testing report shall not be reproduced, except in full, without the written approval of K &





			Gl	<u>RAIN SIZE -</u>	mm.		-
% +3"	% Gr	avel		% Sand		% Fin	es
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
			1	5	14	80	

SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
#4	100		
#8	99		
#16	98		
#30	96		
#50	92		
#100	86		
#200	80		

	Material Descriptio	<u>n</u>	
silt with sand		1	Ì
	Atterberg Limits		
PL= NP	LL= NV	PI= NP	
	Classification		
USCS= ML	AASHTO	= A-4(0)	0.00
In City Maistyne	Remarks		
In-Situ Moisture	= 47.8%	*	
		* †	

(no specification provided)

Location: Adams County Shooting Range (#132E-15) **Sample Number:** 6768

Date: 10-5-16

Kumar & Associates, Inc.

Client: Quantum Water and Environment Project: Adams County Shooting Range

Denver, Colorado

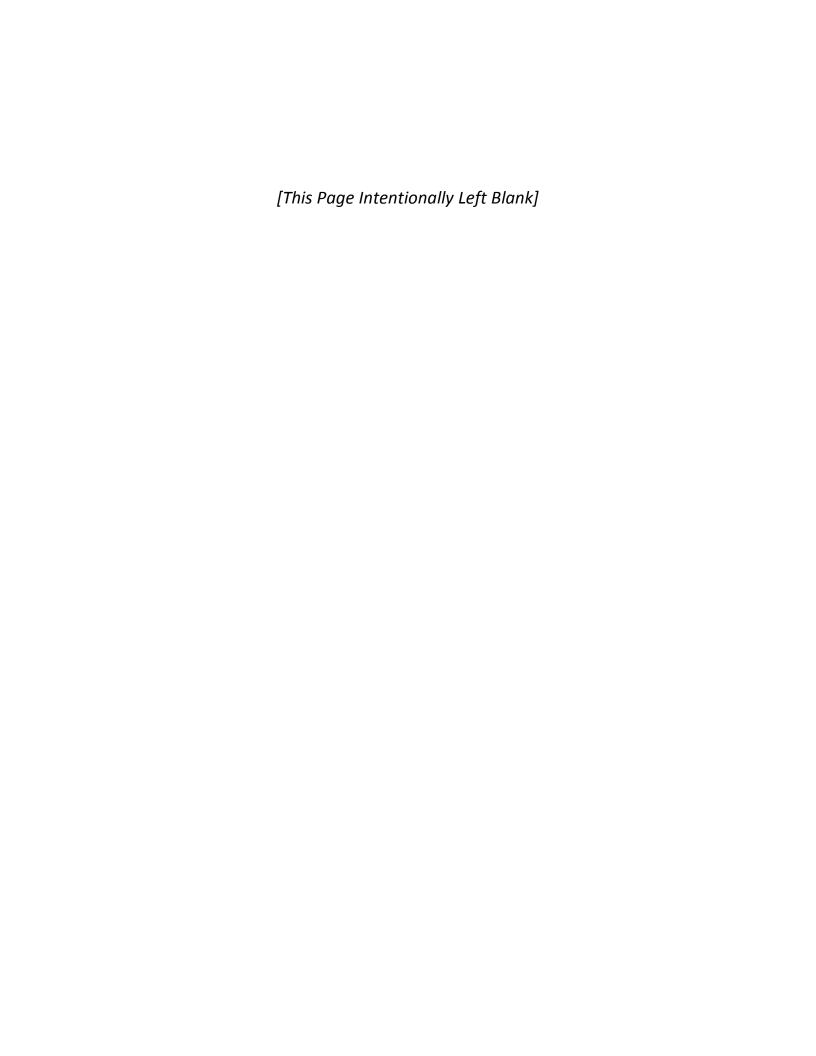
Project No: 16-1-630

Figure

Tested By: TA

Checked By: DS

Appendix N - Land Survey Reports



ADAMS COUNTY SHOOTING RANGE PROPERTY

LOCATED IN THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 14, TOWNSHIP 1 SOUTH, RANGE 67 WEST OF THE 6TH P.M., COUNTY OF ADAMS, STATE OF COLORADO

TOTAL AREA (AS SURVEYED) = 1,282,410 SQ. FT. (29.440 ACRES) MORE OR LESS SHEET 1 OF 2

14781 RIVERDALE ROAD WEP OPERATING CO LLC AND UPLAND **EXPLORATION INC.** REC. 2014000063880 SEE THAT ALTA/ACSM LAND TITLE SURVEY

RECORDED AT BK 1, PG 3464 OR REC 2008-044

NORTH LINE OF SW 1/4 OF THE SW 1/4 SECTION 14 BASIS OF BEARINGS

AS SURVEYED

RIVERDALE ROAD

COUNTY ROAD NO. 49

60' ROW

N88°56'57"E 1309.08' (AM)

(N89°41'00"E 1311.90' RECORD)

50' PIPELINE EASEMENT

50' PIPELINE EASEMENT

TWO FENCES ALONG PORTION OF

NORTHERLY FENCE IS A TALL

616.41' (AM)

S88°56'58"W 667.49' (AM)

(\$89°22'00"W 673.00' RECORD)

14331 RIVERDALE ROAD

SCOTT AND ANGELA MCPHERSON

REC. 2015000017408

CHAIN LINK FENCE AND IS +/- ON

UTILITY LINE EXTENDS

ACROSS PROPERTY LINE

FOUND & ACCEPTED 2" ALUMINUM CAP

LOCATED 2.1' NORTH OF SECTION LINE

STAMPED "CITY OF AURORA"

PROPERTY LINE.

REC.464030

30' RIGHT OF WAY

SEE BK 2794 PG 722-

OR REC. 463060

REC.464030

BOULDER LAND

CONSULTANTS, INC

SCALE IS 1" = 80'

FOUND 3" ALUMINUM

LOT 20, BLOCK 4

TODD CREEK FARMS - FIFTH FILING

REC. C0665756

LOT 23, BLOCK 4

TODD CREEK FARMS - FIFTH FILING

REC. C0665756

LOT 42, BLOCK 4

TODD CREEK FARMS - FIFTH FILING

REC. C0665756

LOT 43, BLOCK 4

REC. C0665756

T1S R67W

LS 23027

FOUND 2" ALUMINUM CAP ON A

LOT 1, BLOCK 1

HAWK RIDGE SUBDIVISION FILING 2

PER MONUMENT RECORD

NO. 6 REBAR

DATED 9-13-1999

TODD CREEK FARMS - FIFTH FILING

CAP ON A NO. 6 REBAR

T1S R67W

S 1/16

S15 | S14

2001

14451 RIVERDALE ROAD

50' PIPELINE EASEMENT

REC.464030

COUNTY OF ADAMS **BOOK 1615 PAGE 201**

LOCATION (DIGITIZED FROM

FOUND 3.25" ALUMINUM

CAP ON A NO. 6 REBAR

DATED 4-17-2001

FOUND 1 ½" YELLOW

PLASTIC CAP STAMPED

S00°20'18"E 310.60' (AM)

(S00°06'00"E 310.60' RECORD)

"PLS 23027"

43.29' AM

APPROXIMATED DITCH

PER MONUMENT RECORD

NOTES:

ON GPS OBSERVATIONS.

ELEVATIONS.

IMAGERY)

1316. UOT

T1S R67W

SW 1/16

2001

AGGREGATE RESOURCES REC. 1989020861336

S39°33'42"W 100.00' (AM)

(\$39°48'00"W 100.00' RECORD)

14400 RIVERDALE ROAD

GREGG MCALEXANDER

REC. 2009000032861

T1S R67W

1999

 $W 1/16 \frac{1}{S23}$

FOUND 3 1/4 " ALUMINUM

CAP ON A NO. 6 REBAR

S33°01'42"W 200.00' (AM)

(\$33°16'00"W 200.00' RECORD)

S23°21'42"W 150.00' (AM)

(S23°36'00"W 150.00' RECORD)

N89°08'38"E 1310.10' (AM)

BETWEEN ALIQUOT SECTION

CORNERS

BOUNDARY LAYOUT

S12°46'42"W 150.00' (AM) (S13°01'00"W 150.00' RECORD)

- S10°04'42"W 207.37' (AM)

RIGHT OF WAY FOR DITCH CROSSING

- BK 2795 AT PG 25 OR REC 463210

\ 51.08' (AM)

(S10°19'00"W 200.00' RECORD)

LEGEND

CALCULATED POINT

ALIQUOT SECTION CORNER

FOUND PIN

IMPLIED.

JASON EMERY

COLORADO LICENSED PROFESSIONAL

BOULDER LAND CONSULTANTS, INC.

LAND SURVEYOR NO. 20134

DATE: OCTOBER 14, 2016

FOR, AND ON BEHALF OF,

BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF THE CERTIFICATION SHOWN HEREON. SURVEYOR'S CERTIFICATION:

I, JASON EMERY, A LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO DO HEREBY CERTIFY TO QUANTUM WATER AND ENVIRONMENT, INC. THAT, SUBJECT TO THE NOTES SHOWN HEREON, A SURVEY OF THE PROPERTY DESCRIBED HEREON WAS MADE UNDER MY RESPONSIBLE CHARGE AND CONFORMS TO APPLICABLE STANDARDS OF PRACTICE. THIS

SURVEY PLAT IS BASED ON MY KNOWLEDGE, INFORMATION AND BELIEF, AND ACCURATELY

AFFIDAVIT IN CONNECTION DECEMBER 10, 1982 WITH ABOVE LEASE OCTOBER 15, 2004 GAS PIPELINE EASEMENT SEPTEMBER 27, 1983 GAS PIPELINE EASEMENT SEPTEMBER 27, 1983 GAS PIPELINE EASEMENT SEPTEMBER 30, 1983 ZONING HEARING DECISION JUNE 28, 1993 REQUEST FOR NOTIFICATION MARCH 31, 2006 OF SURFACE DEVELOPMENT R.O.W. FOR COUNTY ROAD RIGHTS, INTEREST, OR

SEPTEMBER 23, 1890

SEPTEMBER 8, 1980

ANY LEASES TENANCIES RECEPTION NO. 2003074 GAS PIPELINE EASEMENT MARCH 25, 1985 (SEE NOTE 10) 4. THE DISTANCE MEASUREMENTS SHOWN HEREON ARE U.S. SURVEY FEET. THIS PROJECT IS BASED ON A MODIFIED

STATE PLANE COORDINATE SYSTEM, COLORADO NORTH ZONE, NAD 83 (2011). PROJECT HAS BEEN SCALED TO

GROUND FROM POINT 1000 USING A COMBINED SCALE FACTOR OF 1.00026747 [CALCULATED INVERSE OF 0.99973260]. ESTABLISHED CONTROL POINTS USED FOR THIS PROJECT ARE SHOWN HEREON (1000 & 1001).

LOCATION OF UNDERGROUND (UTILITY) FEATURES CANNOT BE ACCURATELY, COMPLETELY OR RELIABLY

TO CHANGE

NO. 49

1. THIS LAND SURVEY PLAT AND THE PROPERTY DESCRIPTION SHOWN HEREON ARE BASED ON FIDELITY NATIONAL TITLE COMPANY TITLE COMMITMENT NO. 515-F0538792-170-TV0, AMENDMENT 1, PREPARED BY FIDELITY NATIONAL

PROPERTY. THIS MAP DOES NOT REPRESENT A TITLE SEARCH PERFORMED BY BOULDER LAND CONSULTANTS, INC.

2. BASIS OF BEARINGS FOR THE INFORMATION SHOWN HEREON IS THE NORTH LINE OF THE SOUTHWEST QUARTER OF

THE SOUTHWEST QUARTER OF SECTION 14 AS SHOWN AND DESCRIBED HEREON. BEARINGS SHOWN ARE BASED

U.S. PATENT

OIL AND GAS LEASE

EASEMENTS FOR BRANTER DITCH

WATER BOUNDARIES SUBJECT

TITLE INSURANCE COMPANY AND DATED APRIL 4. 2016. THE UNDERSIGNED RELIED SOLELY ON THIS TITLE COMMITMENT FOR THE SUBJECT PROPERTY DESCRIPTION AND ENCUMBRANCES AFFECTING THE SUBJECT

3. ACCORDING TO SCHEDULE B - SECTION 2 OF THE TITLE COMMITMENT MENTIONED ABOVE, THE PROPERTY

DESCRIBED HEREON IS SUBJECT TO THE FOLLOWING DESCRIBED INSTRUMENTS:

EXCEPTION NO. BOOK/PAGE OR RECEPTION NO. DESCRIPTION

BOOK , PAGE 447

RECEPTION NO. 283516

RECEPTION NO. 409577 &

RECEPTION NO. 1034840

RECEPTION NO. 463060

RECEPTION NO. 463210

RECEPTION NO. 464030

RECEPTION NO. 1153298

RECEPTION NO. 327160

ASSESSORS MAP

REFERENCING THIS UTILITY LINE WAS ENCOUNTERED.

AFFECT THE SUBJECT PROPERTY.

QUANTUM WATER AND ENVIRONMENT, LLC.

18. IN ACCORDANCE WITH C.R.S. 13-80-105:

SEPTEMBER 21, 2016.

5. ELEVATIONS SHOWN ARE BASED ON AN OPUS SOLUTION FROM NGS ON POINT 1000 WITH A CALCULATED ELEVATION OF 5016.81'. ELEVATIONS SHOWN HEREON ARE NAVD 88. 6. THE LOCATIONS FOR UNDERGROUND UTILITIES WERE BASED UPON VISIBLE SURFACE EVIDENCE, PAINTED SURFACE MARKINGS DELINEATED BY UNDERGROUND CONSULTING SOLUTIONS, LLC (MARKED JANUARY 27, 2016)

AND MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANIES AND THE CITY OF BOULDER. AS STATED IN TABLE

A, ITEM 11 OF THE 2016 ALTA/NSPS MINIMUM STANDARD DETAIL REQUIREMENTS "LACKING EXCAVATION, THE EXACT

7. AN UNDERGROUND GAS LINE NEAR THE WEST PROPERTY LINE IS SHOWN AS AN APPROXIMATION, BASED ON EXISTING SIGNAGE, PIPE RISER, AND RECORDED EASEMENT. THE SAID UNDERGROUND GAS LINE COULD NOT BE DETECTED BY UNDERGROUND CONSULTING SOLUTIONS, LLC. ACCORDING TO QUANTUM WATER AND

ENVIRONMENT, INC. (GUIDED BY AN ONSITE MEETING WITH ANADARKO, INC. ON OCTOBER 5, 2016) AND SUPPLIED MAPS, THE SEGMENT OF THE GAS LINE (RUNNING NORTH/SOUTH) HAS BEEN ABANDONED. ADDITIONALLY IT WAS DETERMINED THAT THE GASLINE CONTINUED ACROSS THE PROPERTY WEST AS SHOWN AND ESTIMATED HEREON.

INVERT ELEVATIONS ON STORM AND SANITARY INLETS AND/OR MANHOLES ARE THE BEST ESTIMATED AND ARE

READILY ACCESSIBLE. OSHA COMPLIANT MANHOLE ENTRY MAY BE NECESSARY TO PROCURE EXACT INVERT

ROUNDED TO THE NEAREST 0.05 FOOT. MANHOLE AND INLET FLOW LINES ARE NOT ALWAYS APPARENT AND/OR

8. UTILITY LINES EXTEND ACROSS THE PROPERTY BOUNDARY AS SHOWN HEREON. NO EASEMENT DOCUMENT FOR THESE LINES WERE ENCOUNTERED. 9. THE GAS LINE FOLLOWING RIVERDALE ROAD EXTENDS ACROSS THE PROPERTY AS SHOWN HEREON. NO EASEMENT

BASED ON THE PROVIDED TITLE COMMITMENT, NO WRITTEN EASEMENT EXISTS FOR THIS SEGMENT

11. THIS SITE CONTAINS A LARGE AMOUNT OF DEBRIS. NOT ALL DEBRIS NOR DEBRIS PILES ARE SHOWN HEREON. DEBRIS PILES SHOWN HEREON HAVE BEEN DIGITIZED BASED ON 2014 HIGH RESOLUTION IMAGERY. THIS SITE ALSO CONTAINS NUMEROUS UNNATURAL BERMS AND EXCAVATION AREAS. ONLY SELECT FEATURES ARE SHOWN.

12. ESTIMATED LEACH FIELD SHOWN HEREON WAS DELINEATED BY QUANTUM WATER AND ENVIRONMENT, LLC ON

13. DEMOLITION DEBRIS DISPOSAL AREA IS ESTIMATED HEREON BASED ON TOPOGRAPHY AND MAPS PROVIDED BY

10. THE GAS PIPELINE EASEMENT (EXCEPTION 19) RECORDED AS RECEPTION NO. 2003074, DOES NOT APPEAR TO

14. ANY PERSON WHO KNOWINGLY REMOVES, ALTERS OR DEFACES ANY PUBLIC LAND SURVEY MONUMENT OR LAND BOUNDARY MONUMENT OR ACCESSORY COMMITS A CLASS TWO (2) MISDEMEANOR PURSUANT TO COLORADO STATE STATUTE 18-4-508 C.R.S. 15. DATES OF FIELD WORK: JANUARY THRU SEPTEMBER, 2016.

16. SURVEYOR'S NARRATIVE: THE LOCATION OF THE BOUNDARY OF THE SUBJECT PROPERTY WAS BASED ON THE RECOVERY OF EXISTING ALIQUOT MONUMENTS AS SET BY SEVERAL LAND SURVEYORS. THE 2" ALUMINUM CAP (CITY OF AURORA) FOUND NEAR THE SOUTHEAST CORNER OF THE PROPERTY WAS DETERMINED TO BE 2.1' FEET

SUBSTANTIAL FENCE AND, THUSLY, WAS ACCEPTED AS BEST EVIDENCE OF PROPERTY LINE LOCATION. RECORD

NORTH OF THE CALCULATED SECTION LINE. SAID MONUMENT IS LOCATED AT THE EASTERLY END OF A

17. CERTIFICATION DEFINED: THE USE OF THE WORDS "CERTIFY" OR "CERTIFICATION" BY A REGISTERED

OR GUARANTY, EITHER EXPRESSED OR IMPLIED. (PER COLORADO STATE BOARD RULE NO. 6.2.2).

ROAD DIMENSIONS AND ALIGNMENT WERE HELD (ROTATED TO OUR BASIS OF BEARINGS) AND EXTENDED

SOUTHERLY TO INTERSECT THE ACCEPTED SOUTHERLY PROPERTY LINE EXTENDED EASTERLY AS SHOWN.

PROFESSIONAL LAND SURVEYOR CONSTITUTES AN EXPRESSION OF PROFESSIONAL OPINION REGARDING THE

FACTS AND FINDINGS WHICH ARE THE SUBJECT OF THE CERTIFICATION, AND DOES NOT CONSTITUTE A WARRANTY

NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT MAY ANY ACTION

DEPICTS THE RESULTS OF SAID SURVEY. PER COLORADO STATE BOARD RULE NO. 6.2.2,THIS CERTIFICATION DOES NOT REPRESENT A GUARANTY OR WARRANTY, EITHER EXPRESSED OR

SHEET 1 OF 2 THIS MAP WAS PREPARED BY BOULDER LAND CONSULTANTS, INC.

ISP: OLD ADAMS COUNTY SHOOTING RANGE PROPERTY ADAMS COUNTY, COLORADO

950 LARAMIE BLVD, UNIT D

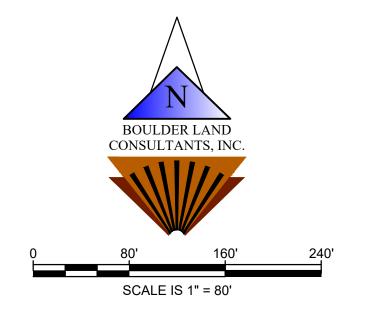
BOULDER, CO 80304 (303) 443-3616

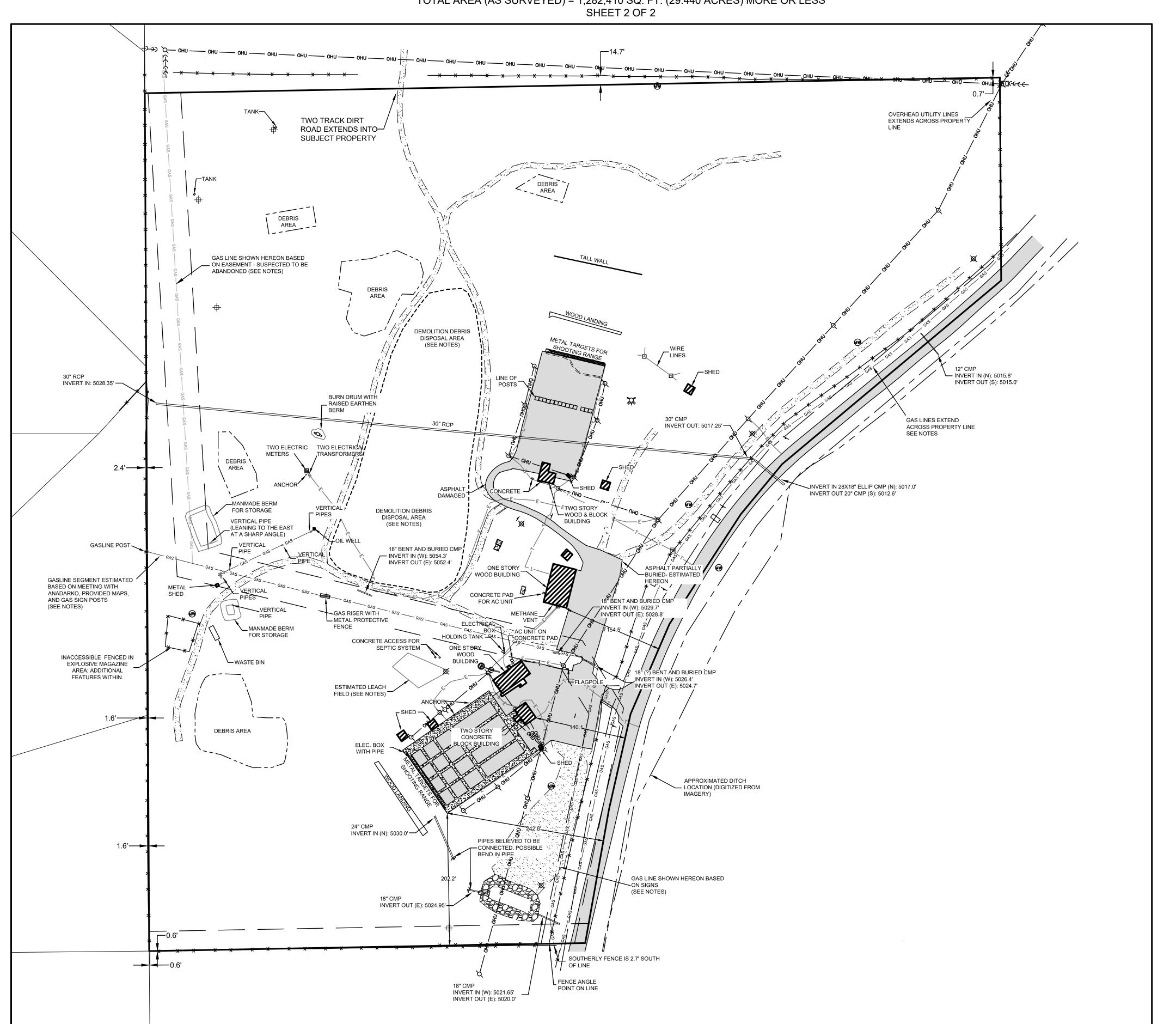
www.BLCsurveyors.com

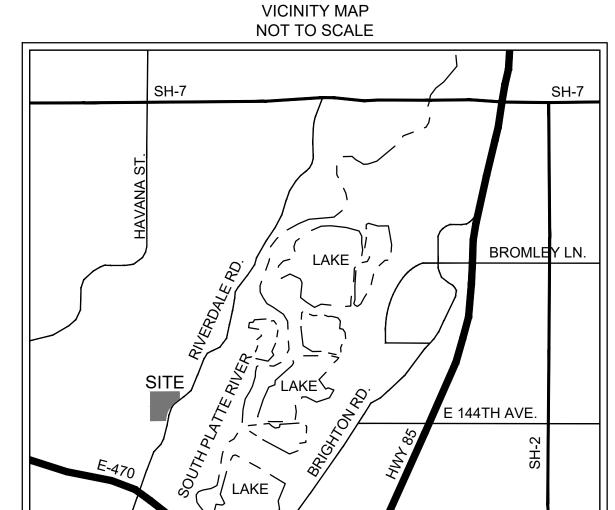
ADAMS COUNTY SHOOTING RANGE PROPERTY

LOCATED IN THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 14, TOWNSHIP 1 SOUTH, RANGE 67 WEST OF THE 6TH P.M.,

COUNTY OF ADAMS, STATE OF COLORADO TOTAL AREA (AS SURVEYED) = 1,282,410 SQ. FT. (29.440 ACRES) MORE OR LESS







FIBER OPTIC BOX

GUY ANCHOR

SIGN

MONITORING WELL

PIEZOMETER

GAS MONITORING PROBE

MAILBOX

POST

WATER WELL

WATER SPIGOT

LEGEND

FIRE HYDRANT

GAS GAS GAS GAS LINE

E E E ELECTRICAL LINE

T T TELEPHONE LINE

OHU OHU OVERHEAD UTILITY LINE

WATER LINE

** ** ** FENCE LINE

ASPHALT
CONCRETE
BUILDING OR SHED
RIPRAP

GRAVEL AREA OR DIRT DRIVE



BOULDER LAND
CONSULTANTS, INC.

950 LARAMIE BLVD, UNIT D
BOULDER, CO 80304 (303) 443–3616
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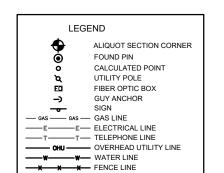
IMPROVEMENTS VIEW

ADAMS COUNTY SHOOTING RANGE PROPERTY

LOCATED IN THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 14. TOWNSHIP 1 SOUTH. RANGE 67 WEST OF THE 6TH P.M..

COUNTY OF ADAMS, STATE OF COLORADO

TOTAL AREA (AS SURVEYED) = 1,282,402 SQ. FT. (29.440 ACRES) MORE OR LESS SHEET 1 OF 1



FOUND 3.25" ALUMINUM

CAP ON A NO. 6 REBAR

DATED 4-17-2001

PER MONUMENT RECORD

S00°20'18"E 310.60' (AM)

(S00°06'00"E 310.60' RECORD)

PLASTIC CAP

STAMPED

43.29' AM

′ "PLS 23027"

APPROXIMATED DITCH LOCATION

AGGREGATE RESOURCES

REC. 1989020861336

FOUND 11/4" YELLOW

MORE OR LESS TO THE SOUTH LINE OF SAID SW1/4 SW1/4; THENCE SOUTH 89°22' WEST ALONG SAID SOUTH LINE, A DISTANCE OF 673.0 FEET, MORE OR LESS

T1S R67W

LINES EXTENDS ACROSS PROPERTY

RIVERDALE ROAD COUNTY ROAD NO. 49-

VICINITY MAP - NOT TO SCALE

TODD CREEK FARMS FIFTH FILING

LOT 19, BLOCK 4 ODD CREEK FARMS 14781 RIVERDALE ROAD WEP OPERATING CO LLC AND UPLAND EXPLORATION INC. FIFTH FILING REC. C0665756 REC. 2014000063880 SEE THAT ALTA/ACSM LAND TITLE SURVEY T1S R67W S15 S14

BROMLEY LN.

2001

E 144TH AVE

NORTH LINE OF SW 1/4 OF THE BASIS OF BEARINGS SW 1/4 SECTION 14 AS SURVEYED N88°56'57"E 1309.08' (AM) FOUND 3" ALUMINUM CAP ON A NO. 6 REBAR ROAD EXTENDS INTO -(N89°41'00"E 1311.90' RECORD) LOT 20, BLOCK 4

LEGAL DESCRIPTION:

COURSES AND DISTANCES:

TO THE POINT OF BEGINNING.

PARTICULARLY DESCRIBED AS FOLLOWS

SOUTH 50°17' WEST. A DISTANCE OF 437.0 FEET:

SOUTH 39°48' WEST. A DISTANCE OF 100.0 FEET:

SOUTH 33°16' WEST, A DISTANCE OF 200.0 FEET

SOUTH 23°36' WEST, A DISTANCE OF 150.0 FEET

SOUTH 13°01' WEST, A DISTANCE OF 150.0 FEET

SOUTH 10°19' WEST, A DISTANCE OF 200.0 FEET

(PER WARRANTY DEED RECORDED AS RECEPTION NO. 901132)

THAT PART OF THE SW1/4 SW1/4 OF SECTION 14, TOWNSHIP 1 SOUTH, RANGE 67 WEST OF THE 6TH P.M., COUNTY OF ADAMS, STATE OF COLORADO, BEING MORE

BEGINNING AT THE SOUTHWEST CORNER OF SAID SW1/4 SW1/4; THENCE NORTH, ALONG THE WEST LINE THEREOF, A DISTANCE OF1315.0 FEET, MORE OR LESS, TO

THE NORTHWEST CORNER THEREOF: THENCE NORTH 89°41' EAST, ALONG THE NORTH LINE THEREOF A DISTANCE OF 1311 9 FFFT MORE OR LESS TO THE

NORTHEAST CORNER THEREOF; THENCE SOUTH 0°06' EAST, ALONG THE EAST

LINE THEREOF, A DISTANCE OF 310.6 FEET, MORE OR LESS, TO THE CENTERLINE

OF COUNTY ROAD NO. 49; THENCE ALONG SAID CENTERLINE, THE FOLLOWING

REC. C0665756 GAS LINE SHOWN HEREON 14451 RIVERDALE ROAD

COUNTY OF ADAMS **BOOK 1615 PAGE 201** _50' PIPELINE EASEMENT LOT 23, BLOCK 4 TODD CREEK FARMS FIFTH FILING

REC. C0665756 30" CMP

S39°33'42"W 100.00' (AM) (S39°48'00"W 100.00' RECORD) S33°01'42"W 200.00' (AM) LOT 42, BLOCK 4 50' PIPELINE FASEMENT TODD CREEK FARMS -FIFTH FILING GAS LINE SHOWN REC. C0665756 SIGNS AND GAS RISE

<u>/</u> S12°46'42"W 150.00' (AM) (SEE NOTE 6) LOT 43, BLOCK 4 (S13°01'00"W 150.00' RECÒRD) **TODD CREEK FARMS** FIFTH FILING REC. C0665756 INVERT IN UNKNOWN -(DIGITIZED FROM IMAGERY) 18" CMP INVERT OUT (E): 5024.95' INVERT IN (W): 5021.65'

INVERT OUT (E): 5020.0

FOUND 2" ALUMINUM CAP ON A NO. 6 REBAR TWO FENCES ALONG PORTION - (S10°19'00"W 200.00' RECORD) PER MONUMENT RECORD SEE BK 2794 PG 722-NORTHERLY FENCE IS A TALL DATED 9-13-1999 OR REC. 463060 FENCE CHAIN LINK FENCE AND IS +/-RIGHT OF WAY FOR DITCH CROSSING ANGLE POINT ON LINE. BK 2795 AT PG 25 OR REC 463210 616.41' (AM) S88°56'58"W 667.49' (AM)

> T1S R67W FOUND & ACCEPTED 2" 14331 RIVERDALE ROAD ALUMINUM CAP STAMPED "CITY OF AURORA" S1<u>5 | S</u>14 S22 | S23 SCOTT AND ANGELA LOCATED 2.1' NORTH MCPHERSON REC. 2015000017408 LS 23027

(\$89°22'00"W 673.00' RECORD)

1995

ACROSS PROPERTY

⊂S23°21'42"W 150.00' (AM (\$23°36'00"W 150.00' RECORD) 14400 RIVERDALE ROAD PIPELINE EASEMENT GREGG MCALEXANDER REC. 2009000032861

SOUTHERLY FENCE IS

2.7' SOUTH OF LINE

GAS LINES EXTENDS

ACROSS PROPERTY LINE

APPROXIMATED DITCH LOCATION S10°04'42"W 207.37' (AM)

> ALUMINUM CAP ON A NO. 6 REBAR N89°08'38"E 1310.10' (AM) BETWEEN ALIQUOT SECTION CORNERS

BOULDER LAND

SCALE IS 1" = 150'

CONSULTANTS, INC

T1S R67W

1999

W 1/16 S23

FOUND 3 1/4

NOTES:

1. THIS LAND SURVEY PLAT AND THE PROPERTY DESCRIPTION SHOWN HEREON ARE BASED ON FIDELITY NATIONAL TITLE COMPANY TITLE COMMITMENT NO. 515-F0538792-170-TV0, AMENDMENT 1, PREPARED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY AND DATED APRIL 4, 2016. THE UNDERSIGNED RELIED SOLELY ON THIS TITLE COMMITMENT FOR THE SUBJECT PROPERTY DESCRIPTION AND ENCUMBRANCES AFFECTING THE SUBJECT PROPERTY. THIS MAP DOES NOT REPRESENT A TITLE SEARCH PERFORMED BY BOULDER LAND CONSULTANTS, INC. OR THE UNDERSIGNED.

2. BASIS OF BEARINGS FOR THE INFORMATION SHOWN HEREON IS THE NORTH LINE OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 14 AS SHOWN AND DESCRIBED HEREON. BEARINGS SHOWN ARE BASED ON GPS

3. ACCORDING TO SCHEDULE B - SECTION 2 OF THE TITLE COMMITMENT MENTIONED ABOVE, THE PROPERTY DESCRIBED HEREON IS SUBJECT TO THE FOLLOWING DESCRIBED INSTRUMENTS: EXCEPTION NO. BOOK/PAGE OR RECEPTION NO. DESCRIPTION

DATE

8	BOOK , PAGE 447	U.S. PATENT	SEPTEMBER 23, 1890
9	RECEPTION NO. 283516	OIL AND GAS LEASE	SEPTEMBER 8, 1980
	RECEPTION NO. 409577 &	AFFIDAVIT IN CONNECTION	DECEMBER 10, 1982
	RECEPTION NO. 1034840	WITH ABOVE LEASE	OCTOBER 15, 2004
10	RECEPTION NO. 463060	GAS PIPELINE EASEMENT	SEPTEMBER 27, 1983
11	RECEPTION NO. 463210	GAS PIPELINE EASEMENT	SEPTEMBER 27, 1983
12	RECEPTION NO. 464030	GAS PIPELINE EASEMENT	SEPTEMBER 30, 1983
13	RECEPTION NO. 1153298	ZONING HEARING DECISION	JUNE 28, 1993
14	RECEPTION NO. 327160	REQUEST FOR NOTIFICATION	MARCH 31, 2006
		OF SURFACE DEVELOPMENT	
15	ASSESSORS MAP	R.O.W. FOR COUNTY ROAD	N/A
		NO. 49	
16	N/A	RIGHTS, INTEREST, OR	N/A
		EASEMENTS FOR BRANTER DITC	CH
17	N/A	WATER BOUNDARIES SUBJECT	N/A
		TO CHANGE	
18	N/A	ANY LEASES TENANCIES	N/A
19	RECEPTION NO. 2003074	GAS PIPELINE EASEMENT	MARCH 25, 1985 (SEE NOTE 11)

4. THE DISTANCE MEASUREMENTS SHOWN HEREON ARE U.S. SURVEY FEET. THIS PROJECT IS BASED ON A MODIFIED STATE PLANE COORDINATE SYSTEM, COLORADO NORTH ZONE, NAD 83 (2011). PROJECT HAS BEEN SCALED TO GROUND FROM POINT 1000 USING A COMBINED SCALE FACTOR OF 1.00026747 [CALCULATED INVERSE OF 0.99973260]. ESTABLISHED CONTROL POINTS USED FOR THIS PROJECT ARE SHOWN HEREON (1000 & 1001)

5. ELEVATIONS SHOWN ARE BASED ON AN OPUS SOLUTION FROM NGS ON POINT 1000 WITH A CALCULATED ELEVATION OF 5016.81'. ELEVATIONS SHOWN HEREON ARE NAVD 88.

6. UNDERGROUND UTILITY LINES SHOWN HEREON WERE DELINEATED BY UNDERGROUND CONSULTING SOLUTIONS, LLC ON JANUARY

7. AT THE REQUEST OF THE CLIENT, ONLY UTILITY LINES AND ATTENDANT UTILITY STRUCTURES ARE SHOWN. NO OTHER SURFACE FEATURES WERE SURVEYED

8. AN UNDERGROUND GAS LINE NEAR THE WEST PROPERTY LINE IS SHOWN AS AN APPROXIMATION, BASED ON EXISTING SIGNAGE, PIPE RISER, AND RECORDED EASEMENT. THE SAID UNDERGROUND GAS LINE COULD NOT BE DETECTED BY UNDERGROUND

9. UTILITY LINES EXTEND ACROSS THE PROPERTY BOUNDARY AS SHOWN HEREON. NO EASEMENT DOCUMENT FOR THESE LINES

10. THE GAS LINE FOLLOWING RIVERDALE ROAD EXTENDS ACROSS THE PROPERTY AS SHOWN HEREON. NO EASEMENT REFERENCING THIS UTILITY LINE WAS ENCOUNTERED.

11. THE GAS PIPELINE EASEMENT (EXCEPTION 19) RECORDED AS RECEPTION NO. 2003074, DOES NOT APPEAR TO AFFECT THE

12. ANY PERSON WHO KNOWINGLY REMOVES, ALTERS OR DEFACES ANY PUBLIC LAND SURVEY MONUMENT OR LAND BOUNDARY MONUMENT OR ACCESSORY COMMITS A CLASS TWO (2) MISDEMEANOR PURSUANT TO COLORADO STATE STATUTE 18-4-508 C.R.S.

13. SURVEYOR'S NARRATIVE: THE LOCATION OF THE BOUNDARY OF THE SUBJECT PROPERTY WAS BASED ON THE RECOVERY OF EXISTING ALIQUOT MONUMENTS AS SET BY SEVERAL LAND SURVEYORS. THE 2" ALUMINUM CAP (CITY OF AURORA) FOUND NEAR THE SOUTHEAST CORNER OF THE PROPERTY WAS DETERMINED TO BE 2.1' FEET NORTH OF THE CALCULATED SECTION LINE. SAID MONUMENT IS LOCATED AT THE EASTERLY END OF A SUBSTANTIAL FENCE AND. THUSLY, WAS ACCEPTED AS BEST EVIDENCE OF PROPERTY LINE LOCATION. RECORD ROAD DIMENSIONS AND ALIGNMENT WERE HELD (ROTATED TO OUR BASIS OF BEARINGS) AND EXTENDED SOUTHERLY TO INTERSECT THE ACCEPTED SOUTHERLY PROPERTY LINE EXTENDED EASTERLY AS SHOW

14. CERTIFICATION DEFINED: THE USE OF THE WORDS "CERTIFY" OR "CERTIFICATION" BY A REGISTERED PROFESSIONAL LAND SURVEYOR CONSTITUTES AN EXPRESSION OF PROFESSIONAL OPINION REGARDING THE FACTS AND FINDINGS WHICH ARE THE SUBJECT OF THE CERTIFICATION, AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTY, EITHER EXPRESSED OR IMPLIED. (PER COLORADO STATE BOARD RULE NO. 6.2.2).

15. IN ACCORDANCE WITH C.R.S. 13-80-105:

NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF THE CERTIFICATION SHOWN HEREON.

16. DATES OF FIELD WORK: JANUARY 27-29, 2016

SURVEYOR'S CERTIFICATION:

I, JASON EMERY, DO HEREBY CERTIFY TO ADAMS COUNTY, QUANTUM WATER AND ENVIRONMENT, LLC AND FIDELITY NATIONAL TITLE COMPANY THAT, SUBJECT TO THE NOTES SHOWN HEREON, A SURVEY OF THE PERIMETER OF THE PROPERTY (COMPLETED ON MARCH 30, 2016) AND DESCRIBED HEREON WAS MADE UNDER MY DIRECT SUPERVISION AND CONFORMS TO ALL APPLICABLE STATE LAWS AS DEFINED IN TITLE 38, ARTICLES 50, 51 AND 53, COLORADO REVISED STATUTES AND THAT THIS LAND SURVEY PLAT ACCURATELY DEPICTS THE RESULTS OF SAID

COLORADO LICENSED PROFESSIONAL LAND SURVEYOR NO. 20134 FOR, AND ON BEHALF OF, BOULDER LAND CONSULTANTS, INC. DATE: APRIL 14, 2016



BOULDER LAND CONSULTANTS, INC. 950 LARAMIE BLVD, UNIT D BOULDER, CO 80304 (303) 443-3616

www.BLCsurveyors.com

THIS MAP WAS PREPARED BY

LSP: OLD ADAMS COUNTY SHOOTING RANGE PROPERTY ADAMS COUNTY, COLORADO

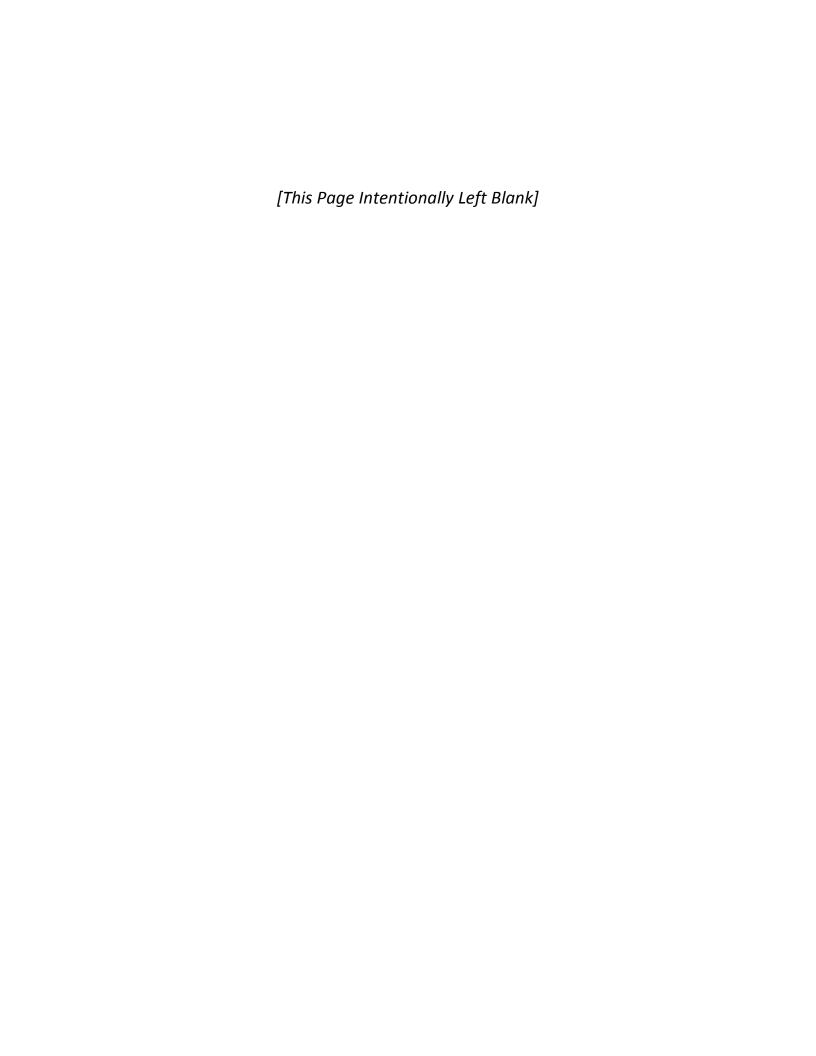
2016 BOULDER LAND CONSULTANTS, INC.

LOT 1. BLOCK 1

HAWK RIDGE

SUBDIVISION FILING 2

Appendix O - Regulated Building Materials Survey Reports





Asbestos Inspection and Sampling Report

14451 Riverdale Rd, Brighton, Colorado

Building A

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Dave Sinkbeil DS Environmental Consulting 12477 W Cedar Dr, Ste 101 Lakewood, CO 80228 (720) 201-6611

Project Details:

Project Number: 15140-A

Conducted: September 21, 2016



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6.0	Hon	ogeneous Areas			
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7.0	Overview of Findings				
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PROJECT OVERVIEW

1.0 Introduction

On September 21, 2016, Mr. Dave Sinkbeil with DS Environmental Consulting (DS) conducted a full-building asbestos inspection and collected asbestos bulk-samples of suspect asbestos-containing materials (ACM) within the entire commercial building located at 14451 Riverdale Rd, Bldg. A, Brighton, Colorado.

The purpose of the full-building inspection was to identify and sample potentially hazardous friable and non-friable ACM that may be impacted by demolition activities. The following are the suspect asbestoscontaining materials that were collected and their respective asbestos content:

The following material does not contain asbestos:

- White painted drywall with no texture
- White joint compound associated with the drywall referenced above
- White orange peel textured drywall
- White texture and white joint compound associated with the textured drywall referenced above
- Gray carpet with gray foam
- White insulation, and
- Shingles with black tar.

2.0 Scope of Work

The scope of the full-building inspection and bulk-sampling encompassed the entire commercial building. Any other out-building or detached garage on the property was not included in the scope of the inspection. The full-building asbestos inspection conducted on September 21, 2016 constituted a full building inspection and fulfills the asbestos inspection requirements for structures that are to be demolished.

3.0 Site Description

The structure is a single-level commercial building.

4.0 Certifications

The asbestos inspection and bulk-sampling was conducted by Mr. Dave Sinkbeil with DS. DS is a Colorado Department of Public Health and Environment (CDPHE) certified Asbestos Consulting Firm, Registration No. 14912. Mr. Sinkbeil is a CDPHE certified Building Inspector; having certification number 13015 (see Appendix A for certificates).

5.0 Inspection, Sampling & Analytical Procedures

5.1 Inspection Procedures

The full asbestos inspection was conducted by an Environmental Protection Agency (EPA) and CDPHE certified Building Inspector. The inspection procedures included identifying and sampling suspect ACM throughout the building, submitting samples to an accredited laboratory for analysis, classifying the

materials and assessing their condition, and compiling a final report detailing the inspection and the analytical results of the bulk-samples.

5.2 Sampling Procedures

Statistically random bulk-samples representative of the suspect ACM of each homogeneous area were collected according to the guidelines published as EPA Final Rule: Title II of the Toxic Substances Control Act (TSCA), 15 USC, Sections 2641 through 2654 and in compliance with 40 CFR, Part 763 and CDPHE Regulation Number 8, Part B - Asbestos (Reg. 8).

DS has collected the appropriate number of bulk-samples to meet all regulatory requirements for the classification and quantity of each homogeneous area. Destructive sampling was conducted in order to locate and quantify suspect ACM from throughout the building.

5.3 Analytical Procedures

All asbestos bulk-samples were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory via Polarized Light Microscopy (PLM) for asbestos content (see Appendix B for laboratory report).

The percentage of asbestos within each individual bulk-sample can vary depending on sample location, homogeneity of the material, and the type of application. Any sample reporting a "TRACE" amount of asbestos must be considered positive for asbestos greater than 1% unless it is re-analyzed utilizing the point-count method and verified to be less than 1%.

Materials containing less than 1% asbestos are not regulated by CDPHE Regulation 8, Part B – Asbestos. However, all demolition/abatement activities should be performed following the applicable Occupational Safety and Health Administration (OSHA) regulations. This would include, but not limited to, the appropriate asbestos training for the type of material being removed/disturbed as well as having a properly trained supervisor onsite, using wet removal methods, wearing adequate personal protective equipment (HEPA-filtered particulate respirators), medical surveillance of workers, personal-exposure air monitoring, area air monitoring in occupied buildings, etc. There may also be landfill disposal requirements for these materials, depending on the facility. DS recommends that all demolition/renovation areas involving any amount of asbestos be subjected to visual inspections and a final clearance air testing by a CDPHE-certified Air Monitoring Specialist (AMS) after the work has been completed, but before any containments are dismantled and the area is reoccupied.

6.0 Homogeneous Areas

A *Homogeneous Area (HA)* includes materials that are uniform in appearance, color, texture and date of application. The asbestos content of the bulk-samples collected within a homogeneous area can be applied to the entire homogeneous area if they conform to the above characteristics and the regulated minimum sample quantities of each type of material are collected and analyzed.

6.1 Material Friability

A material can either be *friable* or *non-friable*. A friable material is one that, when dry, can be pulverized, or reduced to powder by hand pressure, a non-friable material cannot. A non-friable material may become friable if its condition had deteriorated or has been impacted by forces that have rendered it friable.

6.2 Material Classifications

Sampled materials are divided into one of the following three categories:

- *Surfacing Material*: sprayed or troweled onto structural building members
- Thermal System Insulation (TSI): any type of pipe, boiler, tank, or duct insulation
- *Miscellaneous Material*: all other materials not classified in the above two categories

6.3 Material Conditions

Sampled materials are placed into one of the three following categories of conditions:

- *Good*: none to very little visible damage or deterioration
- *Damaged*: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over less than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the damage is localized
- Significantly Damaged: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over greater than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the damage is localized

6.4 Sample Quantities

DS collected at least the minimum number of samples from each homogeneous area necessary to meet all regulatory requirements for the quantity of material to be disturbed. The quantities listed in this report are approximate and on-site verification of the exact quantity of each material is required. The following outlines the minimum sample quantities required per homogeneous area:

- *Surfacing Materials*: up to 1,000 ft² of material requires a minimum of three (3) samples; between 1,000 ft² and 5,000 ft² of material requires a minimum of five (5) samples; over 5,000 ft² of material requires a minimum of seven (7) samples; one (1) sample of each patch
- *Thermal System Insulation (TSI)*: each homogeneous area requires a minimum of three (3) samples; at least one (1) sample must be collected from each patch; and collect enough samples sufficient to adequately assess the material and determine the asbestos content for TSI fittings such as pipe elbows or T's.
- *Miscellaneous Materials*: collect enough samples sufficient to determine the asbestos content

7.0 Overview of Findings

DS collected a total of sixteen (16) asbestos bulk-samples of seven (7) homogeneous areas. The following are the suspect asbestos-containing materials that were collected and their respective asbestos content:

The following material does not contain asbestos:

- White painted drywall with no texture
- White joint compound associated with the drywall referenced above
- White orange peel textured drywall
- White texture and white joint compound associated with the textured drywall referenced above
- Gray carpet with gray foam
- White insulation, and
- Shingles with black tar.

Table 1 below describes the materials composing each homogeneous area as well as the locations of each bulk-sample collected. Also listed is the classification, condition, friability and estimated quantity of material to be removed and/or disturbed, as well as the asbestos content within each bulk-sample. Please see *Appendix B: Analytical Data* for the layer break-down of each bulk-sample.

TABLE 1

<i>HA</i> #	Sample ID	Sample Location	Material Description	Material Classification	Material Condition	Estimated Quantity	Material Friability	Asbestos Content
	SM1-1	Southwest Corner of Main Room – West Wall						
	SM1-2	South Wall in Southwest Room						
1	SM1-3	Ceiling in Main Room	Smooth Painted Drywall with no texture	SM	G	~4400 ft ²	Friable	ND
	SM1-4	East Wall in Main Room						
	SM1-5	East Wall in Southeast Room						
2	JC1-1	Ceiling in Main Room	Joint Compound on drywall	MM	G	~4400 ft ²	Friable	ND
	SM2-1	West Wall in Center Room, on South Wall		SM		~550 ft²		
3	SM2-2	North Wall in Center – Main Room	Orange Peel Textured Painted Drywall		G		Friable	ND
	SM2-3	Interior Wall in Main Room						
4	JC2-1	Main Room – North Wall – Northwest Corner	Joint Compound on drywall	ММ	G	~550 ft ²	Friable	ND
5	CAR 1-1	Southeast Room Floor	Multi-Colored Carpet with	MM	G	~130 ft ²	Non-friable	ND
5	CAR 1-2	Southeast Room Floor	gray foam	IVIIVI	G	~130112	Non-mable	ND
6	INS 1-1	Southwest Room Attic Access	White Blown-In Insulation	MM	G	1E0 6 3	Non friable	ND
6	INS 1-2	Southwest Room Attic Access	winte blown-in insulation	IALIAI		~150 ft ³	Non-friable	עוו

7	SHIN 1-1	Roof – East Side by Main Door	Roofing Shingles with black	MM	C	~2000 ft ²	Non-friable	ND
/	SHIN 1-2	Roof – East Side by Main Door	tar	INTINI	G	~2000 IL²	Non-iriable	ND

HA - Homogeneous Area

ND - None-detected

TR - Trace, <1% Visual Estimate

G - Good

D - Damaged

SD - Significantly Damaged

CHRY - Chrysotile

ACT - Actinolite

SM - Surfacing Material

MM - Miscellaneous Material

TSI - Thermal System Insulation

8.0 Conclusion & Recommendations

Asbestos was not identified within the materials of the commercial building that were within the scope of the full building inspection and bulk-sampling performed on September 21, 2016; therefore, no professional abatement activities are required to remove or disturb the above-referenced sampled materials.

9.0 Asbestos Abatement & Demolition Requirements

If ACM is to be removed or disturbed in a single-family residence, and the total quantity exceeds any of the regulatory trigger levels of 50 linear ft. on pipes, 32 ft² on other surfaces, or the volume equivalent of a 55-gallon drum, a CDPHE-certified General Abatement Contractor (GAC) is required to perform the work. The regulatory trigger levels within a commercial building are 260 linear ft. on pipes, 160 ft² on other surfaces, or the volume equivalent of a 55-gallon drum. In addition, formal notification to CDPHE prior to the abatement of ACM as well as air monitoring, visual inspections, and final air clearances by a CDPHE-certified Asbestos AMS is required. DS can provide the client or building owner with a proposal for project design, abatement oversight and air monitoring upon request.

CDPHE regulations allow for the demolition of a building that contains non-friable asbestos-containing materials, such as caulking, mastic or resilient floor tiles. However, demolition must be completed without causing the non-friable ACM to be rendered friable. Burning a building with any ACM is prohibited. Operations such as sanding, cutting, crushing, grinding, pneumatic jacking, etc. of ACM are not permitted. Recycling of building materials such as concrete, metal, or wood that are bonded or contaminated with ACM, e.g. glue, caulking, or mastic is also prohibited. If any of the non-friable asbestos containing materials are to be recycled and rendered friable after demolition (i.e. crushing mastic-coated concrete), these materials must be abated of all ACM prior to shipping offsite for recycling.

OSHA regulations regarding occupational exposure during demolition activities is still mandatory. OSHA 29 CFR 1926.1101 requires that workers performing construction-related activities be protected from asbestos fibers in excess of the permissible exposure limit of 0.1 f/cc of air. Contractors are must comply with applicable provisions of OSHA 29 CFR 1926.1101 during demolition and renovation activities. These OSHA provisions include, but are not limited to, PPE and respirators, personnel training, personal-exposure air monitoring, employee medical surveillance, wet removal methods, signage for regulated areas, etc.

10.0 Major & Minor Asbestos Spill Response Actions

If ACM is significantly damaged and the total quantity exceeds the regulatory trigger levels, the area is deemed a "Major Asbestos Spill." The area is consequently subject to the requirements in Reg. 8, Section III.T.1. – *Major Asbestos Spills*, as outlined below. Additional asbestos air or dust sampling should also be conducted within the remaining areas not directly impacted by the Major Asbestos Spill to determine if asbestos-containing dust/debris has spread to adjacent areas. If asbestos fibers are found within any other areas or on building contents, they should be included in the scope of professional abatement and decontamination. The following response actions must be followed per Colorado Reg. 8 when a Major Asbestos Spill occurs:

• Restrict access to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.

- Shut off or temporarily modify the air handling system to prevent the distribution of asbestos fibers to other areas.
- Immediately contact the Division by telephone, submit a notification in compliance with subsection III.E. (Notifications) and, if in an area of public access, apply for a permit in accordance with subsection III.G. (Permits).
- Be exempted from the requirements to have a certified Supervisor on-site at all times, until such time as the immediate danger has passed. Any cleanup or asbestos abatement that must occur after the immediate danger has passed shall be supervised by a person certified by the Division.
- Using certified Supervisors and certified Workers in accordance with section II. (Certification Requirements) of this Regulation, seal all openings between the contaminated and uncontaminated areas and establish none-detected air pressure within the contaminated area in accordance with paragraph III.J. (Air Cleaning and None-detected Pressure Requirements). This is to be accomplished using polyethylene sheeting to cover areas such as doorways, windows, elevator openings, corridor entrances, grills, drains, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, drapes, upholstery, and other non-clothing fabrics in the contaminated area, or discard these materials.
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all surfaces in the contaminated area.
- Discard all materials in accordance with subsection III.R. (Waste Handling).
- Following completion of subparagraph III.T.1.a. through III.T.1.i. above, comply with air monitoring requirements as described in subsection III.P. (Clearing Abatement Projects); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the area and
- Comply with any other measures deemed necessary by the Division to protect public health.

In the event of an asbestos spill involving less than or equal to the trigger levels, the building owner or contractor should take the following non-mandatory steps:

- Restrict entry to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.
- Shut off or temporarily modify the air handling system to prevent the distribution of fibers to other areas in the building.
- Seal all openings between the contaminated and uncontaminated areas. This is to be accomplished by using polyethylene sheeting to cover all areas such as windows, doorways, elevator openings, corridor entrances, drains, grills, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, draperies, upholstery and other non-clothing fabrics in the contaminated area, or discard all contaminated materials in accordance with subsection III.R. (Waste Handling).
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all non-fabric surfaces in the contaminated area.
- Following completion of subparagraphs III.T.2.a. through III.T.2.f. of Regulation 8, conduct air monitoring as described in paragraph III.P.3 of Regulation 8. (Final Clearance Air Monitoring and Sample Analyses); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the work area.

11.0 Project Design & Project Manager Requirements

DS can provide an Asbestos Project Design as well as fulfill the Colorado Asbestos Project Manager requirements for any asbestos abatement project, as applicable below.

Project Design

An abatement *Project Design* is an accurate and detailed scope of work, which includes project specifications and procedures, containment design/equipment placement, and descriptions of engineering controls and work practices for an asbestos abatement project or response action that is required by CDPHE Regulation Number 8, Part B - Asbestos (Reg. 8) on large asbestos abatement projects. Prior to the start of any asbestos abatement project in a non-school building, where the amount of asbestos-containing material (ACM) to be removed or disturbed exceeds 1,000 linear feet on pipes, or 3,000 square feet on surfaces, or in a school building in which the amount of friable ACM to be abated exceeds 3 linear feet on pipes, or 3 square feet on surfaces, a written Project Design must be developed by a State of Colorado certified Project Designer in accordance with subsection IV.G.7 of Regulation 8. A signed copy shall be posted on-site prior to commencing any abatement activities, shall be available on-site at all times, and shall remain onsite until final air clearances have been completed by a State of Colorado-certified Air Monitoring Specialist (AMS).

Project Manager

A *Project Manager* shall be used on all asbestos abatement projects in which the amount of friable asbestos-containing material to be abated exceeds 1,000 linear feet on pipes, or 3,000 square feet on other surfaces per CDPHE Regulation Number 8, Part B – Section III.B.6. An asbestos Project Manager on an abatement project shall be responsible for assessing that the project is conducted in accordance with Regulation 8, assessing that the Project Design is followed, assessing that the abatement project is cleared in accordance with Regulation 8, assessing that the asbestos waste generated on the project is properly manifested and disposed of in accordance with Regulation 8, and communicating these assessments to the building owner or GAC. Project Managers must have proof of Colorado certification as an asbestos Project Designer and Air Monitoring Specialist in accordance with Section II of CDPHE Regulation 8 as well as a minimum of one (1) year of experience supervising, overseeing or monitoring asbestos abatement projects. A 4-year college degree in industrial hygiene, a degree in environmental health with a major concentration in industrial hygiene, or the possession of a certified industrial hygienist (CIH) certificate given by the American Board of Industrial Hygiene (ABIH) may be substituted for the Colorado asbestos Air Monitoring Specialist course.

The GAC shall notify the building owner during bid proposals as to whether or not a project manager is required. Project managers shall be independent of the asbestos abatement contractor and work strictly on behalf of the building owner to the extent feasible, unless the abatement is being performed in-house. Project managers must sign the original copy of the abatement permit for the permit to be valid.

12.0 Disclaimer & Limitations

The activities outlined in this report were conducted in a manner consistent with a level of care and expertise exercised by members of the environmental consulting and industrial hygiene profession. All activities were performed in accordance with all applicable federal, state, and local regulations as well as generally accepted standards and professional practice. No warranty is either expressed or implied. DS assumes no responsibility or liability for error in public information utilized, statements from sources other than DS, or developments resulting from situations outside the scope of this project.

The details provided within this report outline the inspection activities on the date(s) indicated and should not be relied upon to represent conditions at a later date, the limited number of bulk-samples collected, and the laboratory results of those bulk-samples. The laboratory results contained in this report apply specifically to the materials in which bulk-samples were collected. The results do not include or apply to any other materials within the structure that were not sampled, but may contain asbestos; including materials that may be hidden or inaccessible. Additional inspection and bulk-sampling activities would be required to determine if any other materials contain asbestos.

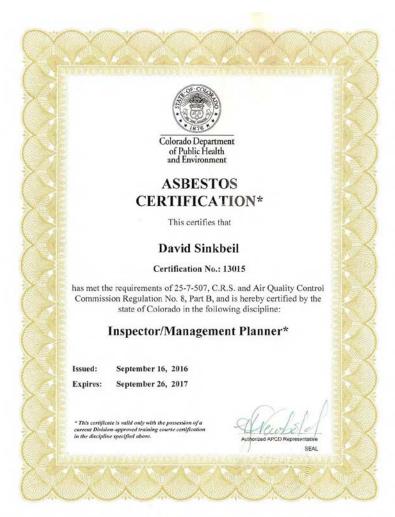
This report has been prepared on behalf of and exclusively for use by the Client, with specific application to their project as discussed in the scope of work. The results of any surfacing material indicated in this report also includes any associated overspray of that material, e.g., under carpet, above suspended ceilings, etc. The information contained in this report is intended as supplementary material for abatement design and is not to be used as the scope of work for abatement activities, bidding or billing purposes. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. DS can provide a full scope of work for abatement upon request. DS does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report.

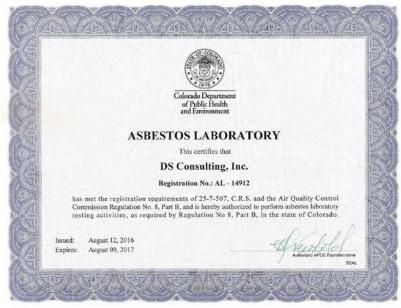
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APPENDIX A

INSPECTOR & FIRM ASBESTOS CERTIFICATES





APPENDIX B ANALYTICAL DATA



September 24, 2016 Subcontract Number: NA

Laboratory Report: RES 361395-1

Project # / P.O. # 14431 Riverdale Rd Bldg A

Project Description: Brighton

DS Environmental Consulting 12477 W. Cedar Dr., Suite 101 Lakewood CO 80228

Dear Customer,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 361395-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

Jeanne Spencer

Emily A. asey

President

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 361395-1

Client: DS Environmental Consulting
Client Project Number / P.O.: 14431 Riverdale Rd Bldg A

Client Project Description: Brighton

Date Samples Received: September 21, 2016

Method: EPA 600/R-93/116 - Short Report, Bulk

Turnaround: 3-5 Day

Date Samples Analyzed: September 24, 2016

ND=None Detected TR=Trace, <1% Visual Estimate Trem/Act=Tremolite/Actinolite

Client Sample Number	Lab ID Number	Y Physical Description	Sub Part (%)	Asbestos Content Mineral Visual Estimate (%)		Components
SM 1-1	EM 1711804	A White compound w/ white paint B Pink/tan drywall	5 95	ND ND	0 85	100 15
SM 1-2	EM 1711805	A White paint B Pink/tan drywall	1 99	ND ND	0	100 75
SM 1-3	EM 1711806	A White paint B Pink/tan drywall	2 98	ND ND ND	0	100 85
SM 1-4	EM 1711807	A White paint	2 98	ND ND ND	0	100 85
SM 1-5	EM 1711808	B Pink/tan drywall A White compound w/ white paint	3	ND	0	100
JC 1-1	EM 1711809	B Pink/tan drywallA White tapeB White joint compound	97 1 2	ND ND ND	90	85 10 100
		C White compound w/ white paint D Pink/tan drywall	5 92	ND ND ND		100 100 85

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 361395-1

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Method: EPA 600/R-93/116 - Short Report, Bulk

Turnaround: 3-5 Day

Date Samples Analyzed: September 24, 2016

ND=None Detected TR=Trace, <1% Visual Estimate Trem/Act=Tremolite/Actinolite

Client Sample Number	Lab ID Number	L A Y Physical E Description R	Sub Part (%)	Asbestos Content Mineral Visual Estimate (%)	Non Asbestos Fibrous Components (%)	Components
SM 2-1	EM 1711810	A White paint	1	ND	0	100
		B White/tan drywall	99	ND	15	85
SM 2-2	EM 1711811	A White texture w/ white paint	50	ND	0	100
		B White/tan drywall	50	ND	25	75
SM 2-3	EM 1711812	A White texture w/ white paint	25	ND	0	100
		B White/tan drywall	75	ND	15	85
JC 2-1	EM 1711813	A White texture w/ white paint	5	ND	0	100
		B White tape	5	ND	90	10
		C White joint compound	5	ND	0	100
		D White/tan drywall	85	ND	15	85
CAR 1-1	EM 1711814	A Gray/multi-colored carpet w/ gray foam	100	ND	50	50
CAR 1-2	EM 1711815	A Gray/multi-colored carpet w/ gray foam	100	ND	50	50
INS 1-1	EM 1711816	A White insulation	100	ND	90	10
INS 1-2	EM 1711817	A White insulation	100	ND	90	10

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 361395-1

Client: DS Environmental Consulting
Client Project Number / P.O.: 14431 Riverdale Rd Bldg A

Client Project Description: Brighton

Date Samples Received: September 21, 2016

Method: EPA 600/R-93/116 - Short Report, Bulk

Turnaround: 3-5 Day

Date Samples Analyzed: September 24, 2016

ND=None Detected TR=Trace, <1% Visual Estimate Trem/Act=Tremolite/Actinolite

Client Sample Number	Lab ID Number	L A Y Physical E Description	Sub Part (%)	Mineral Visual	Components	Fibrous Components
SHIN 1-1	EM 1711818	A Black tar B Black/tan shingle	5 95	; (%) ND ND	0	100
SHIN 1-2	EM 1711819	A Black tar B Black/tan shingle	3 97	ND ND		100 85

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.

Analyst / Data QA

Due Date: 926-928 Due Time

S801 Logan St. Denver, CO 80218 · Ph. 303 994-1985 · Fax 303-477-4275 · Toll Free 856 RESI-ENV

RES 361395 5 Page_

INVOICE TO: (IF DIFFERENT) Pager: 303-509-2098

CONTACT INFORMATION Cellipager Phone Fax dsconsultinginc@msn.com Dave Sinkbeil 720-201-6611 Final Data Deliverable Email Address Cell/pager Contact Phone " A " RD, 810G. Company Address. 14331 RIVERDALE BRIGHTON Address: 12477 W Cedar Dr., Suite 101 Lakewood, CO 80228 Company: DS Consulting, Inc. Project Number and/or P.O. #; Project Description & ocation:

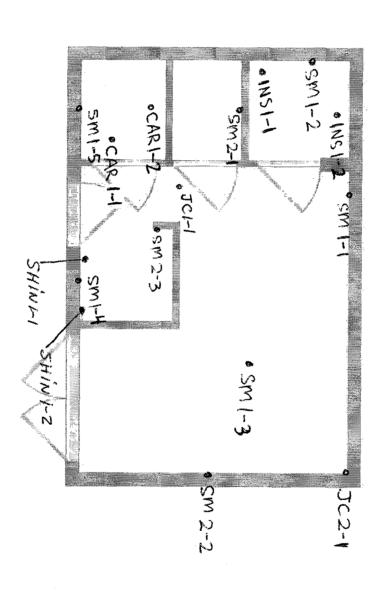
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NOTE: REI will analyze incoming samples based upon information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall constiglize an analytical services agreement with payment terms of NET 30 days, faiture to comply with payment terms may result in a 1.5% monthly interest succharge. (Additional samples shall be listed on attached long form.) Number of samples received:

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APPENDIX C SAMPLE LOCATIONS





Lead-Based Paint Inspection and XRF Testing Report

14451 Riverdale Rd, Brighton, Colorado 80602

Building A

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Robert Neumann DS Environmental Consulting, Inc. 12477 W Cedar Dr, Ste 101 Lakewood, CO 80228 (720) 369 - 6609

Project Details:

Project Number: 15140-A

Conducted: September 21, 2016



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1.0	Introduction
2.0	Scope of Work
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9.0	Disclaimer & Limitations
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APPENDIX A

Inspector & Firm Lead Certificates

1.0 Introduction

On September 21, 2016, Mr. Robert Neumann with DS Environmental Consulting, Inc. (DS) performed a full lead-based paint (LBP) inspection and performed XRF testing to determine the presence of LBP on painted building components of the commercial building located at 14451 Riverdale Rd, Bldg. A, Brighton, Colorado 80602.

The term "paint" means any liquid mixture, usually of solid pigment in a liquid vehicle, used as a decorative or protective coating. This includes, but is not limited to, primer, lacquer, polyurethane, wood stain, etc. The term "lead-based paint" means any paint having concentrations of lead greater than 1.0 mg/cm², which is also Colorado's action level.

The white painted drywall walls and ceilings in the building and the dark brown stained exterior were tested for LBP. All types of paint were found to be negative for LBP.

2.0 Scope of Work

The scope of the full LBP inspection included all areas of the building defined by the environmental consulting company as listed above. No garage or any out-building on the property were included in the scope of the inspection. The full LBP inspection did not constitute a hazard assessment.

3.0 Site Description

The structure is a wood-framed, single-level commercial building.

4.0 Certifications

Mr. Neumann and is a Colorado State Certified LBP Inspector; having EPA Accreditation #23292. DS Environmental Consulting, Inc. is a Colorado State Certified Lead Evaluation Firm, license #16918. Mr. Neumann is certified to operate the RMD LPA-1 XRF Lead Paint Spectrum Analyzer by the manufacturer (see Appendix A for certificates).

5.0 Equipment Information

LBP concentrations were obtained using a RMD Model LPA-1 X-ray Florescence (XRF) Lead Paint Spectrum Analyzer, Serial #3317, which is approved by the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) to determine the concentration of lead in paint.

The RMD LPA-1 XRF Lead Paint Spectrum Analyzer was calibrated according to the manufacturer's Performance Characteristic Sheet (PCS). The XRF was calibrated using the calibration standard block of known 1.0 mg/cm² lead content as well as a standard block of known 0.0 mg/cm² lead content. Three (3) calibration reading of each block were taken before the inspection began as well as after the inspection was completed.

6.0 Inspection & Testing Procedures

The LBP inspection and XRF testing were conducted by a State of Colorado accredited LBP Inspector qualified by experience, education, and training in approved LBP testing techniques. These procedures call for the visual inspection of the areas of concern and the collection of XRF readings for lead concentrations.

This inspection was performed in accordance with the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) guidelines for lead-hazard inspections, as well as the State of Colorado Air Quality Control Commission Regulation No. 19 for the Control of Lead Hazards. The EPA's 40 CFR Part 745 Final Rule (January 5, 2001) set standards for the identification of dangerous levels of lead. The standards identify when lead-based paint, lead-contaminated dust, and lead-contaminated soil are hazards. It also establishes residential dust clean-up levels (post-abatement clearance levels) and set dust and soil sampling requirements. The lead-based paint readings were collected by XRF analyzation for the purpose of determining lead concentrations as mg/cm².

7.0 Overview of Findings

The white painted drywall walls and ceilings in the building and the dark brown stained exterior were tested for LBP. All types of paint were found to be negative for LBP.

8.0 Conclusion & Recommendations

Since no LBP was found on the tested components, no further "lead safe" work practices are required when disturbing, removing or impacting the tested components. Additional testing is required if new materials are discovered or the scope of work changes.

9.0 Disclaimer & Limitations

This full LBP inspection does not constitute a full lead-hazard assessment of the building.

10.0 Copyright Notice

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Asbestos Inspection and Sampling Report

14451 Riverdale Rd, Brighton, Colorado

Building B

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Dave Sinkbeil DS Environmental Consulting 12477 W Cedar Dr, Ste 101 Lakewood, CO 80228 (720) 201-6611

Project Details:

Project Number: 15140-B

Conducted: September 21, 2016



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PROJECT OVERVIEW

1.0 Introduction

On September 21, 2016, Mr. Dave Sinkbeil with DS Environmental Consulting (DS) conducted a full-building asbestos inspection and collected asbestos bulk-samples of suspect asbestos-containing materials (ACM) within the entire commercial building located at 14451 Riverdale Rd, Bldg. B, Brighton, Colorado.

The purpose of the full-building inspection was to identify and sample potentially hazardous friable and non-friable ACM that may be impacted by demolition activities. The following are the suspect asbestoscontaining materials that were collected and their respective asbestos content:

The following materials do not contain asbestos:

- Rough orange peel-textured drywall
- White joint compound associated with the rough orange-peel textured drywall
- Very rough orange-peel textured drywall
- White joint compound associated with the very rough orange-peel textured drywall
- Painted, non-textured drywall
- White joint compound associated with the painted non-textured drywall
- Gray multi-colored carpet with tan mastic
- Black vinyl cove base with brown mastic
- Tan vinyl cove base with brown mastic
- Gray ceiling insulation
- Brown roofing shingles
- White 12"x 12" vinyl floor tile
- Gray sheet vinyl flooring

2.0 Scope of Work

The scope of the full-building inspection and bulk-sampling encompassed the entire commercial building. Any other out-building or detached garage on the property was not included in the scope of the inspection. The full-building asbestos inspection conducted on September 21, 2016 constituted a full building inspection and fulfills the asbestos inspection requirements for structures that are to be demolished.

3.0 Site Description

The structure is a single-level, wood framed commercial building.

4.0 Certifications

The asbestos inspection and bulk-sampling was conducted by Mr. Dave Sinkbeil with DS. DS is a Colorado Department of Public Health and Environment (CDPHE) certified Asbestos Consulting Firm, Registration No. 14912. Mr. Sinkbeil is a CDPHE certified Building Inspector; having certification number 13015 (see Appendix A for certificates).

5.0 Inspection, Sampling & Analytical Procedures

5.1 Inspection Procedures

The full asbestos inspection was conducted by an Environmental Protection Agency (EPA) and CDPHE certified Building Inspector. The inspection procedures included identifying and sampling suspect ACM throughout the building, submitting samples to an accredited laboratory for analysis, classifying the materials and assessing their condition, and compiling a final report detailing the inspection and the analytical results of the bulk-samples.

5.2 Sampling Procedures

Statistically random bulk-samples representative of the suspect ACM of each homogeneous area were collected according to the guidelines published as EPA Final Rule: Title II of the Toxic Substances Control Act (TSCA), 15 USC, Sections 2641 through 2654 and in compliance with 40 CFR, Part 763 and CDPHE Regulation Number 8, Part B - Asbestos (Reg. 8).

DS has collected the appropriate number of bulk-samples to meet all regulatory requirements for the classification and quantity of each homogeneous area. Destructive sampling was conducted in order to locate and quantify suspect ACM from throughout the building.

5.3 Analytical Procedures

All asbestos bulk-samples were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory via Polarized Light Microscopy (PLM) for asbestos content (see Appendix B for laboratory report).

The percentage of asbestos within each individual bulk-sample can vary depending on sample location, homogeneity of the material, and the type of application. Any sample reporting a "TRACE" amount of asbestos must be considered positive for asbestos greater than 1% unless it is re-analyzed utilizing the point-count method and verified to be less than 1%.

Materials containing less than 1% asbestos are not regulated by CDPHE Regulation 8, Part B – Asbestos. However, all demolition/abatement activities should be performed following the applicable Occupational Safety and Health Administration (OSHA) regulations. This would include, but not limited to, the appropriate asbestos training for the type of material being removed/disturbed as well as having a properly trained supervisor onsite, using wet removal methods, wearing adequate personal protective equipment (HEPA-filtered particulate respirators), medical surveillance of workers, personal-exposure air monitoring, area air monitoring in occupied buildings, etc. There may also be landfill disposal requirements for these materials, depending on the facility. DS recommends that all demolition/renovation areas involving any amount of asbestos be subjected to visual inspections and a final clearance air testing by a CDPHE-certified Air Monitoring Specialist (AMS) after the work has been completed, but before any containments are dismantled and the area is reoccupied.

6.0 Homogeneous Areas

A *Homogeneous Area (HA)* includes materials that are uniform in appearance, color, texture and date of application. The asbestos content of the bulk-samples collected within a homogeneous area can be applied to the entire homogeneous area if they conform to the above characteristics and the regulated minimum sample quantities of each type of material are collected and analyzed.

6.1 Material Friability

A material can either be *friable* or *non-friable*. A friable material is one that, when dry, can be pulverized, or reduced to powder by hand pressure, a non-friable material cannot. A non-friable material may become friable if its condition had deteriorated or has been impacted by forces that have rendered it friable.

6.2 Material Classifications

Sampled materials are divided into one of the following three categories:

- Surfacing Material: sprayed or troweled onto structural building members
- *Thermal System Insulation (TSI)*: any type of pipe, boiler, tank, or duct insulation
- *Miscellaneous Material*: all other materials not classified in the above two categories

6.3 Material Conditions

Sampled materials are placed into one of the three following categories of conditions:

- *Good*: none to very little visible damage or deterioration
- *Damaged*: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over less than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the damage is localized
- Significantly Damaged: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over greater than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the damage is localized

6.4 Sample Quantities

DS collected at least the minimum number of samples from each homogeneous area necessary to meet all regulatory requirements for the quantity of material to be disturbed. The quantities listed in this report are approximate and on-site verification of the exact quantity of each material is required. The following outlines the minimum sample quantities required per homogeneous area:

- *Surfacing Materials*: up to 1,000 ft² of material requires a minimum of three (3) samples; between 1,000 ft² and 5,000 ft² of material requires a minimum of five (5) samples; over 5,000 ft² of material requires a minimum of seven (7) samples; one (1) sample of each patch
- *Thermal System Insulation (TSI)*: each homogeneous area requires a minimum of three (3) samples; at least one (1) sample must be collected from each patch; and collect enough samples sufficient to adequately assess the material and determine the asbestos content for TSI fittings such as pipe elbows or T's.
- Miscellaneous Materials: collect enough samples sufficient to determine the asbestos content

7.0 Overview of Findings

DS collected a total of twenty-eight (28) asbestos bulk-samples of thirteen (13) homogeneous areas. The following are the suspect asbestos-containing materials that were collected and their respective asbestos content:

The following materials do not contain asbestos:

Rough orange peel-textured drywall

- White joint compound associated with the rough orange-peel textured drywall
- Very rough orange-peel textured drywall
- White joint compound associated with the very rough orange-peel textured drywall
- Painted, non-textured drywall
- White joint compound associated with the painted non-textured drywall
- Gray multi-colored carpet with tan mastic
- Black vinyl cove base with brown mastic
- Tan vinyl cove base with brown mastic
- Gray ceiling insulation
- Brown roofing shingles
- White 12"x 12" vinyl floor tile
- Gray sheet vinyl flooring

Table 1 below describes the materials composing each homogeneous area as well as the locations of each bulk-sample collected. Also listed is the classification, condition, friability and estimated quantity of material to be removed and/or disturbed, as well as the asbestos content within each bulk-sample. Please see *Appendix B: Analytical Data* for the layer break-down of each bulk-sample.

TABLE 1

<i>HA</i> #	Sample ID	Sample Location	Material Description	Material Classification	Material Condition	Estimated Quantity	Material Friability	Asbestos Content
	SM1-1	East Wall in Center Room, East Side						
	SM1-2	North Room, North Wall						
1	SM1-3	North Room, Southeast Wall	Rough Orange-Peel Textured Drywall	SM	G	~1500 ft ²	Friable	ND
	SM1-4	North Room, Southeast Corner						
	SM1-5	Hallway, North Wall						
2	JC1-1	Center Room, Ceiling	Joint Compound	MM	G	~1500 ft ²	Friable	ND
	SM2-1	South Room, West Wall, North End						
3	SM2-2	South Room, East Wall, Center	Very Rough Orange-Peel Textured Drywall	SM	G	~550 ft ²	Friable	ND
	SM2-3	South Room, Ceiling						
4	JC2-1	South Room, South Wall, East Corner	Joint Compound	ММ	G	~550 ft²	Friable	ND
	SM3-1	South Wall of Bathroom						
5	SM3-2	East Wall of North Storage Room	Painted, Non-Textured Drywall	SM	G	~200 ft ²	Friable	ND
	SM3-3	Northeast Corner of East Room						
6	JC3-1	West Wall of Bathroom	Joint Compound	MM	G	~200 ft ²	Friable	ND

7	CPMA1-1	Northeast Corner of East Room	Gray Multi-Colored Carpet	MM	G	~500 ft ²	Non-friable	ND
	CPMA 1-2	Southwest Corner of East Room	aray rana sererea sarper			30010		
8	CB1-1	West Wall of East Room	Black Vinyl Cove Base with	MM	G	~100 lf	Non-Friable	ND
	CB1-2	West Wall of East Room	Tan Mastic	IVIIVI	ď	100 11	Non-Triable	ND
0	CB2-1	West Wall of Closet in East Room	Tan Vinyl Cove Base with	NANA	C	1016	Nan Grishla	ND
9	CB2-2	West Wall of Closet in East Room	Brown Mastic	ММ	G	~10 lf	Non-friable	ND
10	INS1-1	Attic	Gray Blown in Insulation	MM	G	~1300 ft ²	Non-Friable	ND
10	INS1-2	Attic	dray blown in insulation	INIINI	ď	130010	Non-Prable	ND
11	SHIN1-1	Attic	Black Shingles on vent pipe	MM	G	~15 ft ²	Non-friable	ND
11	SHIN1-2	Attic	black simigles on vent pipe	INIINI	ŭ	~15112	Non-mable	ND
12	FT1-1	Room North of Bathroom	12"x 12" White Vinyl Floor	MM	C	~40 ft ²	Non-friable	ND
12	FT1-2	Room North of Bathroom	Tile with Black Mastic	141141	G	~40 IL ²	NOII-II TADIE	ND
13	SV1-1	Center Room South Side	Gray Sheet Vinyl Flooring	MM		150 ft2	Friable	ND
13	SV1-2	Center Room North Side	dray Sheet vinyi Flooring	IATIAI	G	~150 ft ²	Friable	ואט

HA - Homogeneous Area ND - None-detected

TR - Trace, <1% Visual Estimate

G - Good

D - Damaged

SD - Significantly Damaged

CHRY - Chrysotile ACT - Actinolite

SM - Surfacing Material MM - Miscellaneous Material

TSI - Thermal System Insulation

8.0 Conclusion & Recommendations

Asbestos was not identified within the materials of the commercial building that were within the scope of the full building inspection and bulk-sampling performed on September 21, 2016; therefore, no professional abatement activities are required to remove or disturb the above-referenced sampled materials.

9.0 Asbestos Abatement & Demolition Requirements

If ACM is to be removed or disturbed in a single-family residence, and the total quantity exceeds any of the regulatory trigger levels of 50 linear ft. on pipes, 32 ft² on other surfaces, or the volume equivalent of a 55-gallon drum, a CDPHE-certified General Abatement Contractor (GAC) is required to perform the work. The regulatory trigger levels within a commercial building are 260 linear ft. on pipes, 160 ft² on other surfaces, or the volume equivalent of a 55-gallon drum. In addition, formal notification to CDPHE prior to the abatement of ACM as well as air monitoring, visual inspections, and final air clearances by a CDPHE-certified Asbestos AMS is required. DS can provide the client or building owner with a proposal for project design, abatement oversight and air monitoring upon request.

CDPHE regulations allow for the demolition of a building that contains non-friable asbestos-containing materials, such as caulking, mastic or resilient floor tiles. However, demolition must be completed without causing the non-friable ACM to be rendered friable. Burning a building with any ACM is prohibited. Operations such as sanding, cutting, crushing, grinding, pneumatic jacking, etc. of ACM are not permitted. Recycling of building materials such as concrete, metal, or wood that are bonded or contaminated with ACM, e.g. glue, caulking, or mastic is also prohibited. If any of the non-friable asbestos containing materials are to be recycled and rendered friable after demolition (i.e. crushing mastic-coated concrete), these materials must be abated of all ACM prior to shipping offsite for recycling.

OSHA regulations regarding occupational exposure during demolition activities is still mandatory. OSHA 29 CFR 1926.1101 requires that workers performing construction-related activities be protected from asbestos fibers in excess of the permissible exposure limit of 0.1 f/cc of air. Contractors are must comply with applicable provisions of OSHA 29 CFR 1926.1101 during demolition and renovation activities. These OSHA provisions include, but are not limited to, PPE and respirators, personnel training, personal-exposure air monitoring, employee medical surveillance, wet removal methods, signage for regulated areas, etc.

10.0 Major & Minor Asbestos Spill Response Actions

If ACM is significantly damaged and the total quantity exceeds the regulatory trigger levels, the area is deemed a "Major Asbestos Spill." The area is consequently subject to the requirements in Reg. 8, Section III.T.1. – *Major Asbestos Spills*, as outlined below. Additional asbestos air or dust sampling should also be conducted within the remaining areas not directly impacted by the Major Asbestos Spill to determine if asbestos-containing dust/debris has spread to adjacent areas. If asbestos fibers are found within any other areas or on building contents, they should be included in the scope of professional abatement and decontamination. The following response actions must be followed per Colorado Reg. 8 when a Major Asbestos Spill occurs:

• Restrict access to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.

- Shut off or temporarily modify the air handling system to prevent the distribution of asbestos fibers to other areas.
- Immediately contact the Division by telephone, submit a notification in compliance with subsection III.E. (Notifications) and, if in an area of public access, apply for a permit in accordance with subsection III.G. (Permits).
- Be exempted from the requirements to have a certified Supervisor on-site at all times, until such time as the immediate danger has passed. Any cleanup or asbestos abatement that must occur after the immediate danger has passed shall be supervised by a person certified by the Division.
- Using certified Supervisors and certified Workers in accordance with section II. (Certification Requirements) of this Regulation, seal all openings between the contaminated and uncontaminated areas and establish none-detected air pressure within the contaminated area in accordance with paragraph III.J. (Air Cleaning and None-detected Pressure Requirements). This is to be accomplished using polyethylene sheeting to cover areas such as doorways, windows, elevator openings, corridor entrances, grills, drains, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, drapes, upholstery, and other non-clothing fabrics in the contaminated area, or discard these materials.
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all surfaces in the contaminated area.
- Discard all materials in accordance with subsection III.R. (Waste Handling).
- Following completion of subparagraph III.T.1.a. through III.T.1.i. above, comply with air monitoring requirements as described in subsection III.P. (Clearing Abatement Projects); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the area and
- Comply with any other measures deemed necessary by the Division to protect public health.

In the event of an asbestos spill involving less than or equal to the trigger levels, the building owner or contractor should take the following non-mandatory steps:

- Restrict entry to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.
- Shut off or temporarily modify the air handling system to prevent the distribution of fibers to other areas in the building.
- Seal all openings between the contaminated and uncontaminated areas. This is to be accomplished by using polyethylene sheeting to cover all areas such as windows, doorways, elevator openings, corridor entrances, drains, grills, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, draperies, upholstery and other non-clothing fabrics in the contaminated area, or discard all contaminated materials in accordance with subsection III.R. (Waste Handling).
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all non-fabric surfaces in the contaminated area.
- Following completion of subparagraphs III.T.2.a. through III.T.2.f. of Regulation 8, conduct air monitoring as described in paragraph III.P.3 of Regulation 8. (Final Clearance Air Monitoring and Sample Analyses); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the work area.

11.0 Project Design & Project Manager Requirements

DS can provide an Asbestos Project Design as well as fulfill the Colorado Asbestos Project Manager requirements for any asbestos abatement project, as applicable below.

Project Design

An abatement *Project Design* is an accurate and detailed scope of work, which includes project specifications and procedures, containment design/equipment placement, and descriptions of engineering controls and work practices for an asbestos abatement project or response action that is required by CDPHE Regulation Number 8, Part B - Asbestos (Reg. 8) on large asbestos abatement projects. Prior to the start of any asbestos abatement project in a non-school building, where the amount of asbestos-containing material (ACM) to be removed or disturbed exceeds 1,000 linear feet on pipes, or 3,000 square feet on surfaces, or in a school building in which the amount of friable ACM to be abated exceeds 3 linear feet on pipes, or 3 square feet on surfaces, a written Project Design must be developed by a State of Colorado certified Project Designer in accordance with subsection IV.G.7 of Regulation 8. A signed copy shall be posted on-site prior to commencing any abatement activities, shall be available on-site at all times, and shall remain onsite until final air clearances have been completed by a State of Colorado-certified Air Monitoring Specialist (AMS).

Project Manager

A *Project Manager* shall be used on all asbestos abatement projects in which the amount of friable asbestos-containing material to be abated exceeds 1,000 linear feet on pipes, or 3,000 square feet on other surfaces per CDPHE Regulation Number 8, Part B – Section III.B.6. An asbestos Project Manager on an abatement project shall be responsible for assessing that the project is conducted in accordance with Regulation 8, assessing that the Project Design is followed, assessing that the abatement project is cleared in accordance with Regulation 8, assessing that the asbestos waste generated on the project is properly manifested and disposed of in accordance with Regulation 8, and communicating these assessments to the building owner or GAC. Project Managers must have proof of Colorado certification as an asbestos Project Designer and Air Monitoring Specialist in accordance with Section II of CDPHE Regulation 8 as well as a minimum of one (1) year of experience supervising, overseeing or monitoring asbestos abatement projects. A 4-year college degree in industrial hygiene, a degree in environmental health with a major concentration in industrial hygiene, or the possession of a certified industrial hygienist (CIH) certificate given by the American Board of Industrial Hygiene (ABIH) may be substituted for the Colorado asbestos Air Monitoring Specialist course.

The GAC shall notify the building owner during bid proposals as to whether or not a project manager is required. Project managers shall be independent of the asbestos abatement contractor and work strictly on behalf of the building owner to the extent feasible, unless the abatement is being performed in-house. Project managers must sign the original copy of the abatement permit for the permit to be valid.

12.0 Disclaimer & Limitations

The activities outlined in this report were conducted in a manner consistent with a level of care and expertise exercised by members of the environmental consulting and industrial hygiene profession. All activities were performed in accordance with all applicable federal, state, and local regulations as well as generally accepted standards and professional practice. No warranty is either expressed or implied. DS assumes no responsibility or liability for error in public information utilized, statements from sources other than DS, or developments resulting from situations outside the scope of this project.

The details provided within this report outline the inspection activities on the date(s) indicated and should not be relied upon to represent conditions at a later date, the limited number of bulk-samples collected, and the laboratory results of those bulk-samples. The laboratory results contained in this report apply specifically to the materials in which bulk-samples were collected. The results do not include or apply to any other materials within the structure that were not sampled, but may contain asbestos; including materials that may be hidden or inaccessible. Additional inspection and bulk-sampling activities would be required to determine if any other materials contain asbestos.

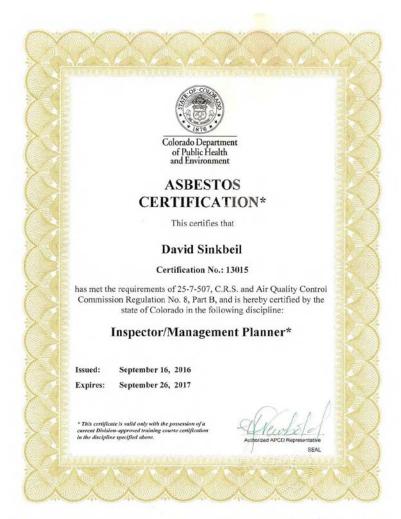
This report has been prepared on behalf of and exclusively for use by the Client, with specific application to their project as discussed in the scope of work. The results of any surfacing material indicated in this report also includes any associated overspray of that material, e.g., under carpet, above suspended ceilings, etc. The information contained in this report is intended as supplementary material for abatement design and is not to be used as the scope of work for abatement activities, bidding or billing purposes. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. DS can provide a full scope of work for abatement upon request. DS does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report.

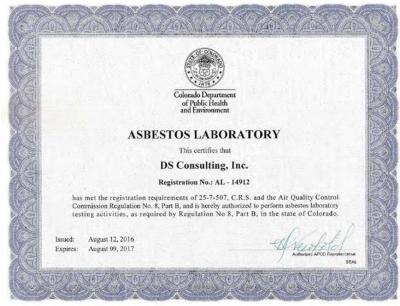
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APPENDIX A

INSPECTOR & FIRM ASBESTOS CERTIFICATES





APPENDIX B ANALYTICAL DATA



September 24, 2016 Subcontract Number: NA

Laboratory Report: RES 361394-1

Project # / P.O. # 14331 Riverdale Rd Bldg B

Project Description: Brighton

DS Environmental Consulting 12477 W. Cedar Dr., Suite 101 Lakewood CO 80228

Dear Customer,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 361394-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

Jeanne Spencer

Emily A. asey

President

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 361394-1

Client: DS Environmental Consulting
Client Project Number / P.O.: 14331 Riverdale Rd Bldg B

Client Project Description: Brighton

Date Samples Received: September 21, 2016

Method: EPA 600/R-93/116 - Short Report, Bulk

Turnaround: 3-5 Day

Date Samples Analyzed: September 24, 2016

ND=None Detected TR=Trace, <1% Visual Estimate Trem/Act=Tremolite/Actinolite

Client Sample Number	Lab ID Number	L A Y Physical	Sub	Asbestos Content Mineral Visual	Non Asbestos Fibrous	_
Number		E Description	(%)	Estimate (%)	O	
SM 1-1	EM 1711820	A White texture w/ white paint	10	ND.	0	100
		B White/tan drywall	90	ND	15	85
SM 1-2	EM 1711821	A White texture w/ white paint	5	ND	0	100
		B Off white/tan drywall	95	ND	15	85
SM 1-3	EM 1711822	A White texture w/ black/white paint	5	ND	0	100
		B Pink/tan drywall	95	ND	15	85
SM 1-4	EM 1711823	A White texture w/ black/white paint	15	ND	0	100
		B White/tan drywall	85	ND	15	85
SM 1-5	EM 1711824	A White texture w/ white paint	5	ND	0	100
		B White/tan drywall	95	ND	15	85
JC 1-1	EM 1711825	A White texture w/ white paint	5	ND	0	100
		B White compound w/ white fibrous woven material	5	ND	10	90
		C Pink/tan drywall	90	ND	15	85

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 361394-1

Client: DS Environmental Consulting
Client Project Number / P.O.: 14331 Riverdale Rd Bldg B

Client Project Description: Brighton

Date Samples Received: September 21, 2016

Method: EPA 600/R-93/116 - Short Report, Bulk

Turnaround: 3-5 Day

Date Samples Analyzed: September 24, 2016

ND=None Detected TR=Trace, <1% Visual Estimate Trem/Act=Tremolite/Actinolite

Client Sample Number	Lab ID Number	L A Physical	Sub	Asbestos Content Mineral Visual	Non Asbestos Fibrous	Non- Fibrous Components
		E Description	(%)	Estimate (%)		
SM 2-1	EM 1711826	A White texture w/ white paint	30	ND	0	100
		B White/tan drywall	70	ND	25	75
SM 2-2	EM 1711827	A White compound w/ white fibrous woven material	5	ND	15	85
		B White texture w/ white paint	25	ND		100
		C Pink/tan drywall	70	ND	15	85
SM 2-3	EM 1711828	A White texture w/ white paint	20	ND	0	100
		B Pink/tan drywall	80	ND	15	85
JC 2-1	EM 1711829	A White texture w/ white paint	20	ND	0	100
		B Pink/tan drywall	80	ND	15	85
SM 3-1	EM 1711830	A Pink paint w/ white texture	5	ND	0	100
		B White/tan drywall	95	ND	15	85
SM 3-2	EM 1711831	A Blue paint	2	ND	0	100
		B White/tan drywall	98	ND	15	85

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 361394-1

Client: DS Environmental Consulting
Client Project Number / P.O.: 14331 Riverdale Rd Bldg B

Client Project Description: Brighton

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ND=None Detected
TR=Trace, <1% Visual Estimate
Trem/Act=Tremolite/Actinolite

Client	Lab ID Number	L	Sub	Asbestos Content	Non Asbestos	Non- Fibrous
Sample Number	ID Number	A Y Physical E Description		Mineral Visual Estimate	Fibrous	Components
		R	(%)	(%)	(%)	(%)
SM 3-3	EM 1711832	A White compound w/ white paint	5	ND	0	100
		B White compound w/ white fibrous woven material	5	ND	5	95
		C White/tan drywall	90	ND	15	85
JC 3-1	EM 1711833	A White compound w/ pink paint	5	ND	0	100
		B White compound w/ white fibrous woven material	5	ND	5	95
		C Pink/tan drywall	90	ND	15	85
CPMA 1-1	EM 1711834	A Tan adhesive	3	ND	0	100
		B Gray/multi-colored carpet	97	ND	90	10
CPMA 1-2	EM 1711835	A Tan adhesive	5	ND	0	100
		B Gray/multi-colored carpet	95	ND	90	10
CB 1-1	EM 1711836	A Brown mastic	TR	ND	0	100
		B Tan mastic	3	ND	0	100
		C Black cove base	97	ND	0	100

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 361394-1

Client: DS Environmental Consulting
Client Project Number / P.O.: 14331 Riverdale Rd Bldg B

Client Project Description: Brighton

Date Samples Received: September 21, 2016

Method: EPA 600/R-93/116 - Short Report, Bulk

Turnaround: 3-5 Day

Date Samples Analyzed: September 24, 2016

ND=None Detected TR=Trace, <1% Visual Estimate Trem/Act=Tremolite/Actinolite

Client Sample Number	Lab ID Number	L A Y Physical E Description R	Sub Part (%)	Asbestos Content Mineral Visual Estimate (%)		Components
CB 1-2	EM 1711837	A Brown mastic B Tan mastic C Black cove base	3 3 94	ND ND ND	0	100 100 100
CB 2-1	EM 1711838	A Brown mastic B Tan cove base	5 95	ND ND		100 100
CB 2-2	EM 1711839	A Brown mastic B Tan cove base	3 97	ND ND		100 100
INS 1-1 INS 1-2	EM 1711840 EM 1711841	A Gray fibrous material A Gray fibrous material	100 100	ND ND	90	10 10
SHIN 1-1 SHIN 1-2 FT 1-1	EM 1711842 EM 1711843 EM 1711844	A Black/brown shingle A Black/brown shingle A Tan mastic	100 100	ND ND	20	80 80 100
F1 I=1	□	B Gray tile	99	ND ND		100

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 361394-1

Client: DS Environmental Consulting
Client Project Number / P.O.: 14331 Riverdale Rd Bldg B

Client Project Description: Brighton

Date Samples Received: September 21, 2016

Method: EPA 600/R-93/116 - Short Report, Bulk

Turnaround: 3-5 Day

Date Samples Analyzed: September 24, 2016

ND=None Detected
TR=Trace, <1% Visual Estimate
Trem/Act=Tremolite/Actinolite

Client Sample Number	Lab ID Number	L A Y Physical E Description	Sub Part	Mineral Visual		Fibrous Components
		R	(%)	(%)	(%)	
FT 1-2	EM 1711845	A Tan mastic	TR	ND	0	100
		B Gray tile	100	ND	TR	100
SV 1-1	EM 1711846	A Tan mastic	2	ND	0	100
		B Black/gray sheet vinyl w/ gray fibrous backing material	98	ND	20	80
SV 1-2	EM 1711847	A Tan mastic	5	ND	0	100
		B Black/gray sheet vinyl w/ gray fibrous backing material	95	ND	20	80

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.

Analyst / Data QA

Due Date 9-22-978 Due Time

S801 Logan St. Deriver, CO 80218 - Ph. 303 964-1986 - Fax 303-477-4275 - Toll Free 866 RESI-ENV

Pager: 303-509-2098

RES 361394

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Page 4000

CONTACT INFORMATION:	Conlact;	Phone	i re	Celipager			VALID MATRIX CODES:	Air = A Bulk = B	Dust = D Paint = P	Soil = S Wipe = W	Swab = SW F = Food	Drinking Water = DW Waste Water = WW	0 = Other	"ASTM E1792 approved wipe media only"					əwn	sea SpoO	511
	Contact: Dave Sinkheil	Phone: 720-201-6611	Fax	Celifpager	Final Dala Deliverable Email Address:	dsconsultinginc@msn.com	REQUESTED ANALYSIS					noile	hifico	neu	n n outs no	callo callo intific intific intesti	17 g	-/+ -/+ -////////-	METH METH 13 +1. 557.H7. 14. 01 15. 14. 01 15. 14. 01 15. 14. 01 15. 14. 01 15. 15. 15. 15. 15. 15. 15. 15. 15. 15.	M. + I. T. C. S. A. T. C. S. A	N N N N N N N N N N N N N N N N N N N
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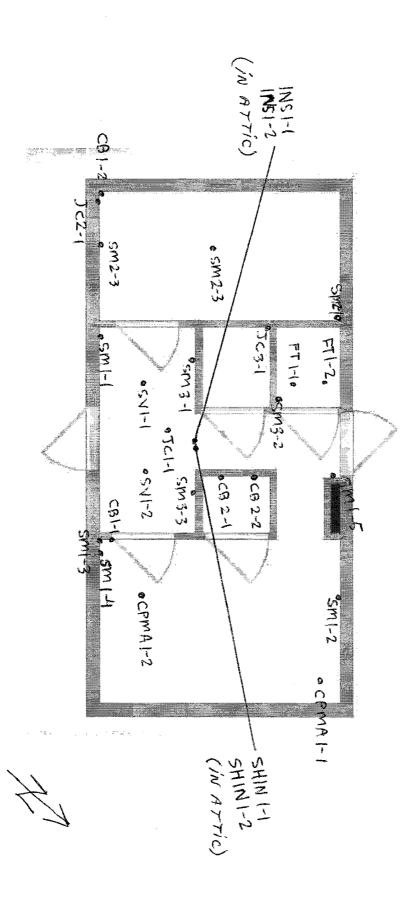
26 ti 53 74 873 = (Additional samples shall be listed on attached long form.) PLM - Short report, Long Number of samples received: 2-1 1-5 1 -1 WS SMZ 10 0 9 1 00 3 4 2 N

npany representative agrees that submission of the following samples for requested NOTE: REI will analyze incoming samples based upon information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing client/co.

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APPENDIX C SAMPLE LOCATIONS



NOT-TO-SCALE
BLDG, "B"



Lead-Based Paint Inspection and XRF Testing Report

14451 Riverdale Rd, Brighton, Colorado 80602

Building B

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Robert Neumann DS Environmental Consulting, Inc. 12477 W Cedar Dr, Ste 101 Lakewood, CO 80228 (720) 369 - 6609

Project Details:

Project Number: 15140-B

Conducted: September 21, 2016



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8.0	Conclusion & Recommendations
9.0	Disclaimer & Limitations
10.0	Copyright Notice

APPENDIX A

Inspector & Firm Lead Certificates

1.0 Introduction

On September 21, 2016, Mr. Robert Neumann with DS Environmental Consulting, Inc. (DS) performed a full lead-based paint (LBP) inspection and performed XRF testing to determine the presence of LBP on painted building components of the commercial building located at 14451 Riverdale Rd, Bldg. B, Brighton, Colorado 80602.

The term "paint" means any liquid mixture, usually of solid pigment in a liquid vehicle, used as a decorative or protective coating. This includes, but is not limited to, primer, lacquer, polyurethane, wood stain, etc. The term "lead-based paint" means any paint having concentrations of lead greater than 1.0 mg/cm², which is also Colorado's action level.

The white, black, pink and light blue painted drywall walls and ceilings in the building and the dark brown stained exterior were tested for LBP. All types of paint were found to be negative for LBP.

2.0 Scope of Work

The scope of the full LBP inspection included all areas of the building defined by the environmental consulting company as listed above. No garage or any out-building on the property were included in the scope of the inspection. The full LBP inspection did not constitute a hazard assessment.

3.0 Site Description

The structure is a wood-framed, single-level commercial building.

4.0 Certifications

Mr. Neumann and is a Colorado State Certified LBP Inspector; having EPA Accreditation #23292. DS Environmental Consulting, Inc. is a Colorado State Certified Lead Evaluation Firm, license #16918. Mr. Neumann is certified to operate the RMD LPA-1 XRF Lead Paint Spectrum Analyzer by the manufacturer (see Appendix A for certificates).

5.0 Equipment Information

LBP concentrations were obtained using a RMD Model LPA-1 X-ray Florescence (XRF) Lead Paint Spectrum Analyzer, Serial #3317, which is approved by the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) to determine the concentration of lead in paint.

The RMD LPA-1 XRF Lead Paint Spectrum Analyzer was calibrated according to the manufacturer's Performance Characteristic Sheet (PCS). The XRF was calibrated using the calibration standard block of known 1.0 mg/cm² lead content as well as a standard block of known 0.0 mg/cm² lead content. Three (3) calibration reading of each block were taken before the inspection began as well as after the inspection was completed.

6.0 Inspection & Testing Procedures

The LBP inspection and XRF testing were conducted by a State of Colorado accredited LBP Inspector qualified by experience, education, and training in approved LBP testing techniques. These procedures call for the visual inspection of the areas of concern and the collection of XRF readings for lead concentrations.

This inspection was performed in accordance with the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) guidelines for lead-hazard inspections, as well as the State of Colorado Air Quality Control Commission Regulation No. 19 for the Control of Lead Hazards. The EPA's 40 CFR Part 745 Final Rule (January 5, 2001) set standards for the identification of dangerous levels of lead. The standards identify when lead-based paint, lead-contaminated dust, and lead-contaminated soil are hazards. It also establishes residential dust clean-up levels (post-abatement clearance levels) and set dust and soil sampling requirements. The lead-based paint readings were collected by XRF analyzation for the purpose of determining lead concentrations as mg/cm².

7.0 Overview of Findings

The white, black, pink and light painted blue drywall walls and ceilings in the building and the dark brown stained exterior were tested for LBP. All types of paint were found to be negative for LBP.

8.0 Conclusion & Recommendations

Since no LBP was found on the tested components, no further "lead safe" work practices are required when disturbing, removing or impacting the tested components. Additional testing is required if new materials are discovered or the scope of work changes.

9.0 Disclaimer & Limitations

This full LBP inspection does not constitute a full lead-hazard assessment of the building.

10.0 Copyright Notice

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Asbestos Inspection and Sampling Report

14451 Riverdale Rd, Brighton, Colorado

Building C

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Dave Sinkbeil DS Environmental Consulting 12477 W Cedar Dr, Ste 101 Lakewood, CO 80228 (720) 201-6611

Project Details:

Project Number: 15140-C

Conducted: September 21, 2016



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		APPENDIX B	Analytical Data
		APPENDIX C	Sample Locations

PROJECT OVERVIEW

1.0 Introduction

On September 21, 2016, Mr. Dave Sinkbeil with DS Environmental Consulting (DS) conducted a full-building asbestos inspection and collected asbestos bulk-samples of suspect asbestos-containing materials (ACM) within the commercial building located at 14451 Riverdale Rd, Bldg. C, Brighton, Colorado.

The purpose of the full-building inspection was to identify and sample potentially hazardous friable and non-friable ACM that may be impacted by demolition activities. The following are the suspect asbestoscontaining materials that were collected and their respective asbestos content:

The following materials do not contain asbestos:

- Painted, non-textured drywall
- White joint compound associated with the painted, non-textured drywall
- Gray block filler
- Black vinyl cove base with green mastic
- Black vinyl stair tread

The following materials were found to contain asbestos:

• Green 9"x 9" vinyl floor tiles (2% Chrysotile asbestos) with black mastic (none detected for asbestos) located in the main room beneath the ceramic floor tile

2.0 Scope of Work

The scope of the full-building inspection and bulk-sampling encompassed the entire commercial building. Any other out-building or detached garage on the property was not included in the scope of the inspection. The full-building asbestos inspection conducted on September 21, 2016 constituted a full building inspection and fulfills the asbestos inspection requirements for structures that are to be demolished.

3.0 Site Description

The structure is a two-story, concrete masonry unit walled commercial building.

4.0 Certifications

The asbestos inspection and bulk-sampling was conducted by Mr. Dave Sinkbeil with DS. DS is a Colorado Department of Public Health and Environment (CDPHE) certified Asbestos Consulting Firm, Registration No. 14912. Mr. Sinkbeil is a CDPHE certified Building Inspector; having certification number 13015 (see Appendix A for certificates).

5.0 Inspection, Sampling & Analytical Procedures

5.1 Inspection Procedures

The full asbestos inspection was conducted by an Environmental Protection Agency (EPA) and CDPHE certified Building Inspector. The inspection procedures included identifying and sampling suspect ACM throughout the building, submitting samples to an accredited laboratory for analysis, classifying the materials and assessing their condition, and compiling a final report detailing the inspection and the analytical results of the bulk-samples.

5.2 Sampling Procedures

Statistically random bulk-samples representative of the suspect ACM of each homogeneous area were collected according to the guidelines published as EPA Final Rule: Title II of the Toxic Substances Control Act (TSCA), 15 USC, Sections 2641 through 2654 and in compliance with 40 CFR, Part 763 and CDPHE Regulation Number 8, Part B - Asbestos (Reg. 8).

DS has collected the appropriate number of bulk-samples to meet all regulatory requirements for the classification and quantity of each homogeneous area. Destructive sampling was conducted in order to locate and quantify suspect ACM from throughout the building.

5.3 Analytical Procedures

All asbestos bulk-samples were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory via Polarized Light Microscopy (PLM) for asbestos content (see Appendix B for laboratory report).

The percentage of asbestos within each individual bulk-sample can vary depending on sample location, homogeneity of the material, and the type of application. Any sample reporting a "TRACE" amount of asbestos must be considered positive for asbestos greater than 1% unless it is re-analyzed utilizing the point-count method and verified to be less than 1%.

Materials containing less than 1% asbestos are not regulated by CDPHE Regulation 8, Part B – Asbestos. However, all demolition/abatement activities should be performed following the applicable Occupational Safety and Health Administration (OSHA) regulations. This would include, but not limited to, the appropriate asbestos training for the type of material being removed/disturbed as well as having a properly trained supervisor onsite, using wet removal methods, wearing adequate personal protective equipment (HEPA-filtered particulate respirators), medical surveillance of workers, personal-exposure air monitoring, area air monitoring in occupied buildings, etc. There may also be landfill disposal requirements for these materials, depending on the facility. DS recommends that all demolition/renovation areas involving any amount of asbestos be subjected to visual inspections and a final clearance air testing by a CDPHE-certified Air Monitoring Specialist (AMS) after the work has been completed, but before any containments are dismantled and the area is reoccupied.

6.0 Homogeneous Areas

A *Homogeneous Area (HA)* includes materials that are uniform in appearance, color, texture and date of application. The asbestos content of the bulk-samples collected within a homogeneous area can be applied to the entire homogeneous area if they conform to the above characteristics and the regulated minimum sample quantities of each type of material are collected and analyzed.

6.1 Material Friability

A material can either be *friable* or *non-friable*. A friable material is one that, when dry, can be pulverized, or reduced to powder by hand pressure, a non-friable material cannot. A non-friable material may become friable if its condition had deteriorated or has been impacted by forces that have rendered it friable.

6.2 Material Classifications

Sampled materials are divided into one of the following three categories:

- Surfacing Material: sprayed or troweled onto structural building members
- *Thermal System Insulation (TSI)*: any type of pipe, boiler, tank, or duct insulation
- *Miscellaneous Material*: all other materials not classified in the above two categories

6.3 Material Conditions

Sampled materials are placed into one of the three following categories of conditions:

- *Good*: none to very little visible damage or deterioration
- *Damaged*: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over less than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the damage is localized
- Significantly Damaged: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over greater than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the damage is localized

6.4 Sample Quantities

DS collected at least the minimum number of samples from each homogeneous area necessary to meet all regulatory requirements for the quantity of material to be disturbed. The quantities listed in this report are approximate and on-site verification of the exact quantity of each material is required. The following outlines the minimum sample quantities required per homogeneous area:

- *Surfacing Materials*: up to 1,000 ft² of material requires a minimum of three (3) samples; between 1,000 ft² and 5,000 ft² of material requires a minimum of five (5) samples; over 5,000 ft² of material requires a minimum of seven (7) samples; one (1) sample of each patch
- Thermal System Insulation (TSI): each homogeneous area requires a minimum of three (3) samples; at least one (1) sample must be collected from each patch; and collect enough samples sufficient to adequately assess the material and determine the asbestos content for TSI fittings such as pipe elbows or T's.
- Miscellaneous Materials: collect enough samples sufficient to determine the asbestos content

7.0 Overview of Findings

DS collected a total of fifteen (15) asbestos bulk-samples of eight (8) homogeneous areas. The following are the suspect asbestos-containing materials that were collected and their respective asbestos content:

The following materials do not contain asbestos:

- Painted, non-textured drywall
- White joint compound associated with the painted, non-textured drywall

- Gray block filler
- Black vinyl cove base with green mastic
- Black vinyl stair tread

The following materials were found to contain asbestos:

• Green 9"x 9" vinyl floor tiles (2% Chrysotile asbestos) with black mastic (none detected for asbestos) located in the main room beneath the ceramic floor tile

Table 1 below describes the materials composing each homogeneous area as well as the locations of each bulk-sample collected. Also listed is the classification, condition, friability and estimated quantity of material to be removed and/or disturbed, as well as the asbestos content within each bulk-sample. Please see *Appendix B: Analytical Data* for the layer break-down of each bulk-sample.

TABLE 1

HA #	Sample ID	Sample Location	Material Description	Material Classification	Material Condition	Estimated Quantity	Material Friability	Asbestos Content
	SM1-1	Ceiling in Main Room, 1st Floor						
1	SM1-2	North Wall, West Closet	Painted, Non-Textured drywall	SM	G	~500 ft ²	Friable	ND
	SM1-3	Ceiling in Main Room						
2	JC1-1	Ceiling in Main Room	Painted, Non-Textured drywall w/joint compound	MM	G	~500 ft ²	Friable	ND
2	FT1-1	Northwest Corner of Floor Under Ceramic Tile	Green 9"x 9" Vinyl Floor Tile;	MM	C	400 62	Nan frialds	2% CHRY;
3	FT1-2	Northwest Corner of Floor Under Ceramic Tile	Black Mastic	MM	G	~400 ft ²	Non-friable	ND
	BF1-1	Main Room, Southwest Corner						
	BF1-2	Main Room, West Wall						
4	BF1-3	Main Room, South Wall	Gray Block Filler	SM	G	~2500 ft ²	Non-friable	ND
	BF1-4	Exterior, West Corner						
	BF1-5	Exterior, North Corner						
7	CB1-1	South Room, Baseboard	Black Vinyl Cove Base with	NANA	C	0.10	N. Call.	ND
7	CB1-2	South Room, Baseboard	Green Mastic	MM	G	~8 lf	Non-friable	ND
0	ST1-1	On Staircase to Second Floor	Division love many	MM	C	20.63	М Г. 17	ND
8	ST1-2	On Staircase to Second Floor	Black Vinyl Stair Tread	MM	G	~30 ft ²	Non-Friable	ND

HA - Homogeneous Area ND - None-detected

TR - Trace, <1% Visual Estimate

G - Good D - Damaged

SD - Significantly Damaged

CHRY - Chrysotile ACT - Actinolite SM - Surfacing Material MM - Miscellaneous Material TSI - Thermal System Insulation

8.0 Conclusion & Recommendations

Asbestos was identified within the Green 9"x 9" vinyl floor tile (the black mastic was none detected for asbestos) located underneath the ceramic floor tile in the main room of the commercial building that were within the scope of the full building inspection and bulk-sampling performed on September 21, 2016. Therefore, no professional abatement activities are required prior to the demolition of the building and the asbestos containing floor tiles can be left in place during the demolition, so long as the asbestos containing floor tiles <u>are not rendered friable during the demolition activities</u>.

9.0 Asbestos Abatement & Demolition Requirements

If ACM is to be removed or disturbed in a single-family residence, and the total quantity exceeds any of the regulatory trigger levels of 50 linear ft. on pipes, 32 ft² on other surfaces, or the volume equivalent of a 55-gallon drum, a CDPHE-certified General Abatement Contractor (GAC) is required to perform the work. The regulatory trigger levels within a commercial building are 260 linear ft. on pipes, 160 ft² on other surfaces, or the volume equivalent of a 55-gallon drum. In addition, formal notification to CDPHE prior to the abatement of ACM as well as air monitoring, visual inspections, and final air clearances by a CDPHE-certified Asbestos AMS is required. DS can provide the client or building owner with a proposal for project design, abatement oversight and air monitoring upon request.

CDPHE regulations allow for the demolition of a building that contains non-friable asbestos-containing materials, such as caulking, mastic or resilient floor tiles. However, demolition must be completed without causing the non-friable ACM to be rendered friable. Burning a building with any ACM is prohibited. Operations such as sanding, cutting, crushing, grinding, pneumatic jacking, etc. of ACM are not permitted. Recycling of building materials such as concrete, metal, or wood that are bonded or contaminated with ACM, e.g. glue, caulking, or mastic is also prohibited. If any of the non-friable asbestos containing materials are to be recycled and rendered friable after demolition (i.e. crushing mastic-coated concrete), these materials must be abated of all ACM prior to shipping offsite for recycling.

OSHA regulations regarding occupational exposure during demolition activities is still mandatory. OSHA 29 CFR 1926.1101 requires that workers performing construction-related activities be protected from asbestos fibers in excess of the permissible exposure limit of 0.1 f/cc of air. Contractors are must comply with applicable provisions of OSHA 29 CFR 1926.1101 during demolition and renovation activities. These OSHA provisions include, but are not limited to, PPE and respirators, personnel training, personal-exposure air monitoring, employee medical surveillance, wet removal methods, signage for regulated areas, etc.

10.0 Major & Minor Asbestos Spill Response Actions

If ACM is significantly damaged and the total quantity exceeds the regulatory trigger levels, the area is deemed a "Major Asbestos Spill." The area is consequently subject to the requirements in Reg. 8, Section III.T.1. – *Major Asbestos Spills*, as outlined below. Additional asbestos air or dust sampling should also be conducted within the remaining areas not directly impacted by the Major Asbestos Spill to determine if asbestos-containing dust/debris has spread to adjacent areas. If asbestos fibers are found within any other areas or on building contents, they should be included in the scope of professional abatement and decontamination. The following response actions must be followed per Colorado Reg. 8 when a Major Asbestos Spill occurs:

- Restrict access to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.
- Shut off or temporarily modify the air handling system to prevent the distribution of asbestos fibers to other areas.
- Immediately contact the Division by telephone, submit a notification in compliance with subsection III.E. (Notifications) and, if in an area of public access, apply for a permit in accordance with subsection III.G. (Permits).
- Be exempted from the requirements to have a certified Supervisor on-site at all times, until such time as the immediate danger has passed. Any cleanup or asbestos abatement that must occur after the immediate danger has passed shall be supervised by a person certified by the Division.
- Using certified Supervisors and certified Workers in accordance with section II. (Certification Requirements) of this Regulation, seal all openings between the contaminated and uncontaminated areas and establish none-detected air pressure within the contaminated area in accordance with paragraph III.J. (Air Cleaning and None-detected Pressure Requirements). This is to be accomplished using polyethylene sheeting to cover areas such as doorways, windows, elevator openings, corridor entrances, grills, drains, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, drapes, upholstery, and other non-clothing fabrics in the contaminated area, or discard these materials.
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all surfaces in the contaminated area.
- Discard all materials in accordance with subsection III.R. (Waste Handling).
- Following completion of subparagraph III.T.1.a. through III.T.1.i. above, comply with air monitoring requirements as described in subsection III.P. (Clearing Abatement Projects); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the area and
- Comply with any other measures deemed necessary by the Division to protect public health.

In the event of an asbestos spill involving less than or equal to the trigger levels, the building owner or contractor should take the following non-mandatory steps:

- Restrict entry to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.
- Shut off or temporarily modify the air handling system to prevent the distribution of fibers to other areas in the building.
- Seal all openings between the contaminated and uncontaminated areas. This is to be accomplished by using polyethylene sheeting to cover all areas such as windows, doorways, elevator openings, corridor entrances, drains, grills, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, draperies, upholstery and other non-clothing fabrics in the contaminated area, or discard all contaminated materials in accordance with subsection III.R. (Waste Handling).
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all non-fabric surfaces in the contaminated area.
- Following completion of subparagraphs III.T.2.a. through III.T.2.f. of Regulation 8, conduct air monitoring as described in paragraph III.P.3 of Regulation 8. (Final Clearance Air Monitoring and Sample Analyses); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the work area.

11.0 Project Design & Project Manager Requirements

DS can provide an Asbestos Project Design as well as fulfill the Colorado Asbestos Project Manager requirements for any asbestos abatement project, as applicable below.

Project Design

An abatement *Project Design* is an accurate and detailed scope of work, which includes project specifications and procedures, containment design/equipment placement, and descriptions of engineering controls and work practices for an asbestos abatement project or response action that is required by CDPHE Regulation Number 8, Part B - Asbestos (Reg. 8) on large asbestos abatement projects. Prior to the start of any asbestos abatement project in a non-school building, where the amount of asbestos-containing material (ACM) to be removed or disturbed exceeds 1,000 linear feet on pipes, or 3,000 square feet on surfaces, or in a school building in which the amount of friable ACM to be abated exceeds 3 linear feet on pipes, or 3 square feet on surfaces, a written Project Design must be developed by a State of Colorado certified Project Designer in accordance with subsection IV.G.7 of Regulation 8. A signed copy shall be posted on-site prior to commencing any abatement activities, shall be available on-site at all times, and shall remain onsite until final air clearances have been completed by a State of Colorado-certified Air Monitoring Specialist (AMS).

Project Manager

A *Project Manager* shall be used on all asbestos abatement projects in which the amount of friable asbestos-containing material to be abated exceeds 1,000 linear feet on pipes, or 3,000 square feet on other surfaces per CDPHE Regulation Number 8, Part B – Section III.B.6. An asbestos Project Manager on an abatement project shall be responsible for assessing that the project is conducted in accordance with Regulation 8, assessing that the Project Design is followed, assessing that the abatement project is cleared in accordance with Regulation 8, assessing that the asbestos waste generated on the project is properly manifested and disposed of in accordance with Regulation 8, and communicating these assessments to the building owner or GAC. Project Managers must have proof of Colorado certification as an asbestos Project Designer and Air Monitoring Specialist in accordance with Section II of CDPHE Regulation 8 as well as a minimum of one (1) year of experience supervising, overseeing or monitoring asbestos abatement projects. A 4-year college degree in industrial hygiene, a degree in environmental health with a major concentration in industrial hygiene, or the possession of a certified industrial hygienist (CIH) certificate given by the American Board of Industrial Hygiene (ABIH) may be substituted for the Colorado asbestos Air Monitoring Specialist course.

The GAC shall notify the building owner during bid proposals as to whether or not a project manager is required. Project managers shall be independent of the asbestos abatement contractor and work strictly on behalf of the building owner to the extent feasible, unless the abatement is being performed in-house. Project managers must sign the original copy of the abatement permit for the permit to be valid.

12.0 Disclaimer & Limitations

The activities outlined in this report were conducted in a manner consistent with a level of care and expertise exercised by members of the environmental consulting and industrial hygiene profession. All activities were performed in accordance with all applicable federal, state, and local regulations as well as generally accepted standards and professional practice. No warranty is either expressed or implied. DS assumes no responsibility or liability for error in public information utilized, statements from sources other than DS, or developments resulting from situations outside the scope of this project.

The details provided within this report outline the inspection activities on the date(s) indicated and should not be relied upon to represent conditions at a later date, the limited number of bulk-samples collected, and the laboratory results of those bulk-samples. The laboratory results contained in this report apply specifically to the materials in which bulk-samples were collected. The results do not include or apply to any other materials within the structure that were not sampled, but may contain asbestos; including materials that may be hidden or inaccessible. Additional inspection and bulk-sampling activities would be required to determine if any other materials contain asbestos.

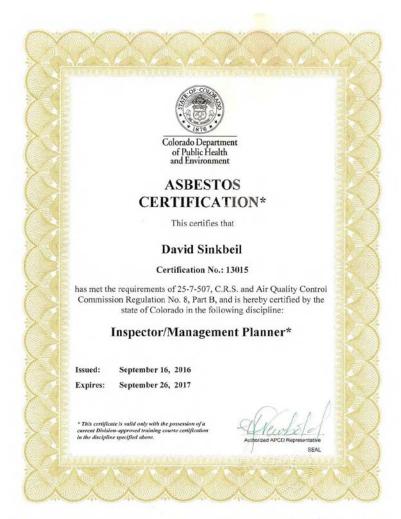
This report has been prepared on behalf of and exclusively for use by the Client, with specific application to their project as discussed in the scope of work. The results of any surfacing material indicated in this report also includes any associated overspray of that material, e.g., under carpet, above suspended ceilings, etc. The information contained in this report is intended as supplementary material for abatement design and is not to be used as the scope of work for abatement activities, bidding or billing purposes. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. DS can provide a full scope of work for abatement upon request. DS does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report.

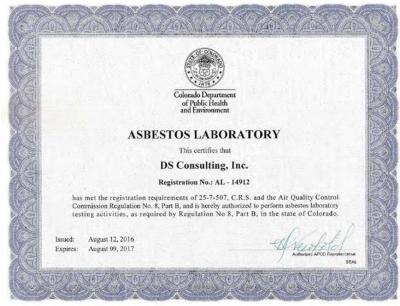
13.0 Copyright Notice

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APPENDIX A

INSPECTOR & FIRM ASBESTOS CERTIFICATES





APPENDIX B ANALYTICAL DATA



September 24, 2016 Subcontract Number: NA

Laboratory Report: RES 361402-1

Project # / P.O. # 14331 Riverdale Rd Bldg C

Project Description: Brighton

DS Environmental Consulting 12477 W. Cedar Dr., Suite 101 Lakewood CO 80228

Dear Customer,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 361402-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

Jeanne Spencer

Emily A. asey

President

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 361402-1

Client: DS Environmental Consulting
Client Project Number / P.O.: 14331 Riverdale Rd Bldg C

Client Project Description: Brighton

Date Samples Received: September 21, 2016

Method: EPA 600/R-93/116 - Short Report, Bulk

Turnaround: 3-5 Day

Date Samples Analyzed: September 24, 2016

ND=None Detected TR=Trace, <1% Visual Estimate Trem/Act=Tremolite/Actinolite

Client Sample Number	Lab ID Number	L A Y Physical E Description R	Sub Part (%)	Asbestos Content Mineral Visual Estimate (%)	Components	Components
SM 1-1	EM 1711862	A White paint	2	ND		100
		B Pink/tan drywall	98	ND	15	85
SM 1-2	EM 1711863	A White paint	2	ND	0	100
		B Pink/tan drywall	98	ND	15	85
SM 1-3	EM 1711864	A White paint	2	ND	0	100
		B Pink/tan drywall	98	ND	15	85
JC 1-1	EM 1711865	A White texture w/ white paint	5	ND	0	100
		B Pink/tan drywall	95	ND	15	85
FT 1-1	EM 1711866	A Tan mastic	3	ND	0	100
		B Green tile	97	Chrysotile 2	0	98
FT 1-2	EM 1711867	A Tan mastic	2	ND	0	100
		B Green tile	98	Chrysotile 2	0	98
BF 1-1	EM 1711868	A White paint w/ a trace of white block filler	2	ND	0	100
		B Gray granular cementitious material	98	ND	0	100

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 361402-1

Client: DS Environmental Consulting
Client Project Number / P.O.: 14331 Riverdale Rd Bldg C

Client Project Description: Brighton

Date Samples Received: September 21, 2016

Method: EPA 600/R-93/116 - Short Report, Bulk

Turnaround: 3-5 Day

Date Samples Analyzed: September 24, 2016

ND=None Detected TR=Trace, <1% Visual Estimate Trem/Act=Tremolite/Actinolite

Client Sample	Lab ID Number	L A	Sub	Asbestos Content	Non Asbestos	Non- Fibrous
Number	ID Number	Y Physical E Description		Mineral Visual	Fibrous	Components
		R Besonption	(%)	Estimate (%)	(%)	(%)
BF 1-2	EM 1711869	A White paint w/ white block filler	3	ND	0	100
		B Gray granular cementitious material	97	ND	0	100
BF 1-3	EM 1711870	A White paint w/ a trace of white block filler	5	ND	0	100
		B Gray granular cementitious material	45	ND	0	100
		C Gray granular cementitious material	50	ND	0	100
BF 1-4	EM 1711871	A Tan paint w/ white block filler	40	ND	0	100
		B Gray granular cementitious material	60	ND	0	100
BF 1-5	EM 1711872	A White block filler w/ tan paint	30	ND	0	100
		B Gray granular cementitious material	70	ND	0	100
CB 1-1	EM 1711873	A Yellow adhesive	5	ND	0	100
		B Black cove base	95	ND	0	100
CB 1-2	EM 1711874	A Yellow adhesive	5	ND	0	100
		B Black cove base	95	ND	0	100
ST 1-1	EM 1711875	A Black stair tread w/ paint	100	ND	0	100

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 361402-1

Client: **DS Environmental Consulting** Client Project Number / P.O.: 14331 Riverdale Rd Bldg C

Client Project Description: **Brighton**

Date Samples Received: **September 21, 2016**

Method: EPA 600/R-93/116 - Short Report, Bulk

Turnaround: 3-5 Day

Date Samples Analyzed: **September 24, 2016** ND=None Detected TR=Trace, <1% Visual Estimate Trem/Act=Tremolite/Actinolite

Client	Lab	L		Asbestos Content	Non	-
Sample	ID Number	A	Sub		Asbestos	Fibrous
Number		Y Physical	Part	Mineral Visual	Fibrous	Components
		E Description		Estimate		
		R	(%)	(%)	(%)	(%)
ST 1-2	EM 1711876	A Black stair tread	100	ND	0	100

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.

Analyst / Data QA

Due Date 9-26-528 Due Time:

RES 361402

S801 Logan St. Derwer, CO 80218 - Ph. 303 904-1986 - Fax 303-477-4275 - Toll Free .866 RESHENV Pager : 303-509-2098
INVOICE TO: (IF DIFFERENT)

CONTACT INFORMATION:

Company DS Consulting Inc		Company		Contact	Da	Dave Sinkbeil	liac						
Address: 12477 W Codar Dr	Suite 101	Address:		Phone	720-	720-201-661	11		Phone				
SCON CO ROSS	10			Fax					Fax.				,
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Project Number and/or P.O. #:	14331 RIVERDALE	. RD 810G.		Final Da	is Deliverable	Final Data Deliverable Email Address							
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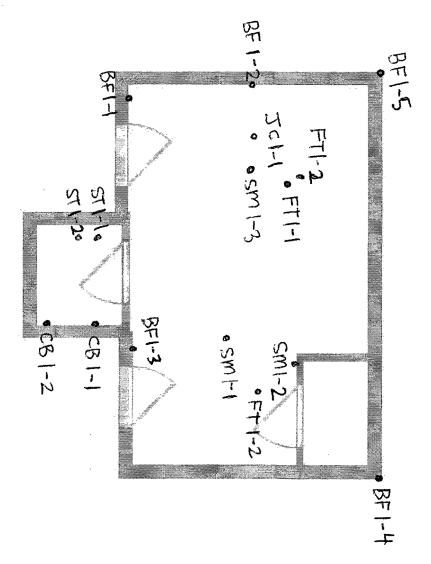
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APPENDIX C SAMPLE LOCATIONS



NOT-TO-SCALE
BLDG, "C"



Lead-Based Paint Inspection and XRF Testing Report

14451 Riverdale Rd, Brighton, Colorado 80602

Building C

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Robert Neumann DS Environmental Consulting, Inc. 12477 W Cedar Dr, Ste 101 Lakewood, CO 80228 (720) 369 - 6609

Project Details:

Project Number: 15140-C

Conducted: September 21, 2016



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2.0	Scope of Work
3.0	Site Description
4.0	Certifications
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6.0	Inspection & Testing Procedures
7.0	Overview of Findings
8.0	Conclusion & Recommendations
9.0	Disclaimer & Limitations
10.0	Copyright Notice

APPENDIX A

Inspector & Firm Lead Certificates

PROJECT OVERVIEW

1.0 Introduction

On September 21, 2016, Mr. Robert Neumann with DS Environmental Consulting, Inc. (DS) performed a full lead-based paint (LBP) inspection and performed XRF testing to determine the presence of LBP on painted building components of the commercial building located at 14451 Riverdale Rd, Bldg. C, Brighton, Colorado 80602.

The term "paint" means any liquid mixture, usually of solid pigment in a liquid vehicle, used as a decorative or protective coating. This includes, but is not limited to, primer, lacquer, polyurethane, wood stain, etc. The term "lead-based paint" means any paint having concentrations of lead greater than 1.0 mg/cm², which is also Colorado's action level.

The white painted concrete masonry unit walls and drywall ceilings were tested for LBP. All types of paint were found to be negative for LBP.

2.0 Scope of Work

The scope of the full LBP inspection included all areas of the building defined by the environmental consulting company as listed above. No garage or any out-building on the property were included in the scope of the inspection. The full LBP inspection did not constitute a hazard assessment.

3.0 Site Description

The structure is a two-story commercial building constructed of concrete masonry unit blocks.

4.0 Certifications

Mr. Neumann and is a Colorado State Certified LBP Inspector; having EPA Accreditation #23292. DS Environmental Consulting, Inc. is a Colorado State Certified Lead Evaluation Firm, license #16918. Mr. Neumann is certified to operate the RMD LPA-1 XRF Lead Paint Spectrum Analyzer by the manufacturer (see Appendix A for certificates).

5.0 Equipment Information

LBP concentrations were obtained using a RMD Model LPA-1 X-ray Florescence (XRF) Lead Paint Spectrum Analyzer, Serial #3317, which is approved by the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) to determine the concentration of lead in paint.

The RMD LPA-1 XRF Lead Paint Spectrum Analyzer was calibrated according to the manufacturer's Performance Characteristic Sheet (PCS). The XRF was calibrated using the calibration standard block of known 1.0 mg/cm² lead content as well as a standard block of known 0.0 mg/cm² lead content. Three (3) calibration reading of each block were taken before the inspection began as well as after the inspection was completed.

6.0 Inspection & Testing Procedures

The LBP inspection and XRF testing were conducted by a State of Colorado accredited LBP Inspector qualified by experience, education, and training in approved LBP testing techniques. These procedures call for the visual inspection of the areas of concern and the collection of XRF readings for lead concentrations.

This inspection was performed in accordance with the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) guidelines for lead-hazard inspections, as well as the State of Colorado Air Quality Control Commission Regulation No. 19 for the Control of Lead Hazards. The EPA's 40 CFR Part 745 Final Rule (January 5, 2001) set standards for the identification of dangerous levels of lead. The standards identify when lead-based paint, lead-contaminated dust, and lead-contaminated soil are hazards. It also establishes residential dust clean-up levels (post-abatement clearance levels) and set dust and soil sampling requirements. The lead-based paint readings were collected by XRF analyzation for the purpose of determining lead concentrations as mg/cm².

7.0 Overview of Findings

The white painted concrete masonry unit walls and drywall ceilings were tested for LBP. All types of paint were found to be negative for LBP.

8.0 Conclusion & Recommendations

Since no LBP was found on the tested components, no further "lead safe" work practices are required when disturbing, removing or impacting the tested components. Additional testing is required if new materials are discovered or the scope of work changes.

9.0 Disclaimer & Limitations

This full LBP inspection does not constitute a full lead-hazard assessment of the building.

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Asbestos Inspection and Sampling Report

14451 Riverdale Rd, Brighton, Colorado

Building D

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Dave Sinkbeil DS Environmental Consulting 12477 W Cedar Dr, Ste 101 Lakewood, CO 80228 (720) 201-6611

Project Details:

Project Number: 15140-D

Conducted: September 21, 2016



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PROJECT OVERVIEW

1.0 Introduction

On September 21, 2016, Mr. Dave Sinkbeil with DS Environmental Consulting (DS) conducted a full-building asbestos inspection and collected asbestos bulk-samples of suspect asbestos-containing materials (ACM) within the entire commercial building located at 14451 Riverdale Rd, Bldg. D, Brighton, Colorado.

The purpose of the full-building inspection was to identify and sample potentially hazardous friable and non-friable ACM that may be impacted by demolition activities. The following are the suspect asbestoscontaining materials that were collected and their respective asbestos content:

The following materials do not contain asbestos:

Black/white roof shingles

2.0 Scope of Work

The scope of the full-building inspection and bulk-sampling encompassed the entire commercial building. Any other out-building or detached garage on the property was not included in the scope of the inspection. The full-building asbestos inspection conducted on September 21, 2016 constituted a full building inspection and fulfills the asbestos inspection requirements for structures that are to be demolished.

3.0 Site Description

The structure is a one-story, 12'x 12', wood constructed commercial building.

4.0 Certifications

The asbestos inspection and bulk-sampling was conducted by Mr. Dave Sinkbeil with DS. DS is a Colorado Department of Public Health and Environment (CDPHE) certified Asbestos Consulting Firm, Registration No. 14912. Mr. Sinkbeil is a CDPHE certified Building Inspector; having certification number 13015 (see Appendix A for certificates).

5.0 Inspection, Sampling & Analytical Procedures

5.1 Inspection Procedures

The full asbestos inspection was conducted by an Environmental Protection Agency (EPA) and CDPHE certified Building Inspector. The inspection procedures included identifying and sampling suspect ACM throughout the building, submitting samples to an accredited laboratory for analysis, classifying the materials and assessing their condition, and compiling a final report detailing the inspection and the analytical results of the bulk-samples.

5.2 Sampling Procedures

Statistically random bulk-samples representative of the suspect ACM of each homogeneous area were collected according to the guidelines published as EPA Final Rule: Title II of the Toxic Substances Control Act (TSCA), 15 USC, Sections 2641 through 2654 and in compliance with 40 CFR, Part 763 and CDPHE Regulation Number 8, Part B - Asbestos (Reg. 8).

DS has collected the appropriate number of bulk-samples to meet all regulatory requirements for the classification and quantity of each homogeneous area. Destructive sampling was conducted in order to locate and quantify suspect ACM from throughout the building.

5.3 Analytical Procedures

All asbestos bulk-samples were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory via Polarized Light Microscopy (PLM) for asbestos content (see Appendix B for laboratory report).

The percentage of asbestos within each individual bulk-sample can vary depending on sample location, homogeneity of the material, and the type of application. Any sample reporting a "TRACE" amount of asbestos must be considered positive for asbestos greater than 1% unless it is re-analyzed utilizing the point-count method and verified to be less than 1%.

Materials containing less than 1% asbestos are not regulated by CDPHE Regulation 8, Part B – Asbestos. However, all demolition/abatement activities should be performed following the applicable Occupational Safety and Health Administration (OSHA) regulations. This would include, but not limited to, the appropriate asbestos training for the type of material being removed/disturbed as well as having a properly trained supervisor onsite, using wet removal methods, wearing adequate personal protective equipment (HEPA-filtered particulate respirators), medical surveillance of workers, personal-exposure air monitoring, area air monitoring in occupied buildings, etc. There may also be landfill disposal requirements for these materials, depending on the facility. DS recommends that all demolition/renovation areas involving any amount of asbestos be subjected to visual inspections and a final clearance air testing by a CDPHE-certified Air Monitoring Specialist (AMS) after the work has been completed, but before any containments are dismantled and the area is reoccupied.

6.0 Homogeneous Areas

A *Homogeneous Area (HA)* includes materials that are uniform in appearance, color, texture and date of application. The asbestos content of the bulk-samples collected within a homogeneous area can be applied to the entire homogeneous area if they conform to the above characteristics and the regulated minimum sample quantities of each type of material are collected and analyzed.

6.1 Material Friability

A material can either be *friable* or *non-friable*. A friable material is one that, when dry, can be pulverized, or reduced to powder by hand pressure, a non-friable material cannot. A non-friable material may become friable if its condition had deteriorated or has been impacted by forces that have rendered it friable.

6.2 Material Classifications

Sampled materials are divided into one of the following three categories:

- *Surfacing Material*: sprayed or troweled onto structural building members
- *Thermal System Insulation (TSI)*: any type of pipe, boiler, tank, or duct insulation
- *Miscellaneous Material*: all other materials not classified in the above two categories

6.3 Material Conditions

Sampled materials are placed into one of the three following categories of conditions:

- *Good*: none to very little visible damage or deterioration
- Damaged: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded
 over less than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the
 damage is localized
- *Significantly Damaged*: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over greater than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the damage is localized

6.4 Sample Quantities

DS collected at least the minimum number of samples from each homogeneous area necessary to meet all regulatory requirements for the quantity of material to be disturbed. The quantities listed in this report are approximate and on-site verification of the exact quantity of each material is required. The following outlines the minimum sample quantities required per homogeneous area:

- Surfacing Materials: up to 1,000 ft² of material requires a minimum of three (3) samples; between 1,000 ft² and 5,000 ft² of material requires a minimum of five (5) samples; over 5,000 ft² of material requires a minimum of seven (7) samples; one (1) sample of each patch
- Thermal System Insulation (TSI): each homogeneous area requires a minimum of three (3) samples; at least one (1) sample must be collected from each patch; and collect enough samples sufficient to adequately assess the material and determine the asbestos content for TSI fittings such as pipe elbows or T's.
- *Miscellaneous Materials*: collect enough samples sufficient to determine the asbestos content

7.0 Overview of Findings

DS collected a total of two (2) asbestos bulk-samples of one (1) homogeneous area. The following are the suspect asbestos-containing materials that were collected and their respective asbestos content:

The following materials do not contain asbestos:

• Black/white roof shingles

Table 1 below describes the materials composing each homogeneous area as well as the locations of each bulk-sample collected. Also listed is the classification, condition, friability and estimated quantity of material to be removed and/or disturbed, as well as the asbestos content within each bulk-sample. Please see *Appendix B: Analytical Data* for the layer break-down of each bulk-sample.

TABLE 1

	<i>HA</i> #	Sample ID	Sample Location	Material Description	Material Classification	Material Condition	Estimated Quantity	Material Friability	Asbestos Content
	1	SHIN1-1	Roof, North Corner	Plank / Lita Pank Chinaka	NANA	C	1 4 4 5-2	Pari alal a	All ND
1	SHIN1-2	Roof, South Corner	Black/white Roof Shingles	MM	u	~144 ft ²	Friable	All ND	

HA - Homogeneous Area	G - Good	CHRY - Chrysotile	SM - Surfacing Material
ND - None-detected	D - Damaged	ACT - Actinolite	MM - Miscellaneous Material
TR - Trace, <1% Visual Estimate	SD - Significantly Damaged		TSI - Thermal System Insulation

8.0 Conclusion & Recommendations

Asbestos was not identified within the materials of the commercial building that were within the scope of the full building inspection and bulk-sampling performed on September 21, 2016; therefore, no professional abatement activities are required to remove or disturb the above-referenced sampled materials.

9.0 Asbestos Abatement & Demolition Requirements

If ACM is to be removed or disturbed in a single-family residence, and the total quantity exceeds any of the regulatory trigger levels of 50 linear ft. on pipes, 32 ft² on other surfaces, or the volume equivalent of a 55-gallon drum, a CDPHE-certified General Abatement Contractor (GAC) is required to perform the work. The regulatory trigger levels within a commercial building are 260 linear ft. on pipes, 160 ft² on other surfaces, or the volume equivalent of a 55-gallon drum. In addition, formal notification to CDPHE prior to the abatement of ACM as well as air monitoring, visual inspections, and final air clearances by a CDPHE-certified Asbestos AMS is required. DS can provide the client or building owner with a proposal for project design, abatement oversight and air monitoring upon request.

CDPHE regulations allow for the demolition of a building that contains non-friable asbestos-containing materials, such as caulking, mastic or resilient floor tiles. However, demolition must be completed without causing the non-friable ACM to be rendered friable. Burning a building with any ACM is prohibited. Operations such as sanding, cutting, crushing, grinding, pneumatic jacking, etc. of ACM are not permitted. Recycling of building materials such as concrete, metal, or wood that are bonded or contaminated with ACM, e.g. glue, caulking, or mastic is also prohibited. If any of the non-friable asbestos containing materials are to be recycled and rendered friable after demolition (i.e. crushing mastic-coated concrete), these materials must be abated of all ACM prior to shipping offsite for recycling.

OSHA regulations regarding occupational exposure during demolition activities is still mandatory. OSHA 29 CFR 1926.1101 requires that workers performing construction-related activities be protected from asbestos fibers in excess of the permissible exposure limit of 0.1 f/cc of air. Contractors are must comply with applicable provisions of OSHA 29 CFR 1926.1101 during demolition and renovation activities. These OSHA provisions include, but are not limited to, PPE and respirators, personnel training, personal-exposure air monitoring, employee medical surveillance, wet removal methods, signage for regulated areas, etc.

10.0 Major & Minor Asbestos Spill Response Actions

If ACM is significantly damaged and the total quantity exceeds the regulatory trigger levels, the area is deemed a "Major Asbestos Spill." The area is consequently subject to the requirements in Reg. 8, Section III.T.1. – *Major Asbestos Spills*, as outlined below. Additional asbestos air or dust sampling should also be conducted within the remaining areas not directly impacted by the Major Asbestos Spill to determine if asbestos-containing dust/debris has spread to adjacent areas. If asbestos fibers are found within any other areas or on building contents, they should be included in the scope of professional abatement and decontamination. The following response actions must be followed per Colorado Reg. 8 when a Major Asbestos Spill occurs:

• Restrict access to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.

- Shut off or temporarily modify the air handling system to prevent the distribution of asbestos fibers to other areas.
- Immediately contact the Division by telephone, submit a notification in compliance with subsection III.E. (Notifications) and, if in an area of public access, apply for a permit in accordance with subsection III.G. (Permits).
- Be exempted from the requirements to have a certified Supervisor on-site at all times, until such time as the immediate danger has passed. Any cleanup or asbestos abatement that must occur after the immediate danger has passed shall be supervised by a person certified by the Division.
- Using certified Supervisors and certified Workers in accordance with section II. (Certification Requirements) of this Regulation, seal all openings between the contaminated and uncontaminated areas and establish none-detected air pressure within the contaminated area in accordance with paragraph III.J. (Air Cleaning and None-detected Pressure Requirements). This is to be accomplished using polyethylene sheeting to cover areas such as doorways, windows, elevator openings, corridor entrances, grills, drains, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, drapes, upholstery, and other non-clothing fabrics in the contaminated area, or discard these materials.
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all surfaces in the contaminated area.
- Discard all materials in accordance with subsection III.R. (Waste Handling).
- Following completion of subparagraph III.T.1.a. through III.T.1.i. above, comply with air monitoring requirements as described in subsection III.P. (Clearing Abatement Projects); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the area and
- Comply with any other measures deemed necessary by the Division to protect public health.

In the event of an asbestos spill involving less than or equal to the trigger levels, the building owner or contractor should take the following non-mandatory steps:

- Restrict entry to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.
- Shut off or temporarily modify the air handling system to prevent the distribution of fibers to other areas in the building.
- Seal all openings between the contaminated and uncontaminated areas. This is to be accomplished by using polyethylene sheeting to cover all areas such as windows, doorways, elevator openings, corridor entrances, drains, grills, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, draperies, upholstery and other non-clothing fabrics in the contaminated area, or discard all contaminated materials in accordance with subsection III.R. (Waste Handling).
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all non-fabric surfaces in the contaminated area.
- Following completion of subparagraphs III.T.2.a. through III.T.2.f. of Regulation 8, conduct air monitoring as described in paragraph III.P.3 of Regulation 8. (Final Clearance Air Monitoring and Sample Analyses); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the work area.

11.0 Project Design & Project Manager Requirements

DS can provide an Asbestos Project Design as well as fulfill the Colorado Asbestos Project Manager requirements for any asbestos abatement project, as applicable below.

Project Design

An abatement *Project Design* is an accurate and detailed scope of work, which includes project specifications and procedures, containment design/equipment placement, and descriptions of engineering controls and work practices for an asbestos abatement project or response action that is required by CDPHE Regulation Number 8, Part B - Asbestos (Reg. 8) on large asbestos abatement projects. Prior to the start of any asbestos abatement project in a non-school building, where the amount of asbestos-containing material (ACM) to be removed or disturbed exceeds 1,000 linear feet on pipes, or 3,000 square feet on surfaces, or in a school building in which the amount of friable ACM to be abated exceeds 3 linear feet on pipes, or 3 square feet on surfaces, a written Project Design must be developed by a State of Colorado certified Project Designer in accordance with subsection IV.G.7 of Regulation 8. A signed copy shall be posted on-site prior to commencing any abatement activities, shall be available onsite at all times, and shall remain onsite until final air clearances have been completed by a State of Colorado-certified Air Monitoring Specialist (AMS).

Project Manager

A *Project Manager* shall be used on all asbestos abatement projects in which the amount of friable asbestos-containing material to be abated exceeds 1,000 linear feet on pipes, or 3,000 square feet on other surfaces per CDPHE Regulation Number 8, Part B – Section III.B.6. An asbestos Project Manager on an abatement project shall be responsible for assessing that the project is conducted in accordance with Regulation 8, assessing that the Project Design is followed, assessing that the abatement project is cleared in accordance with Regulation 8, assessing that the asbestos waste generated on the project is properly manifested and disposed of in accordance with Regulation 8, and communicating these assessments to the building owner or GAC. Project Managers must have proof of Colorado certification as an asbestos Project Designer and Air Monitoring Specialist in accordance with Section II of CDPHE Regulation 8 as well as a minimum of one (1) year of experience supervising, overseeing or monitoring asbestos abatement projects. A 4-year college degree in industrial hygiene, a degree in environmental health with a major concentration in industrial hygiene, or the possession of a certified industrial hygienist (CIH) certificate given by the American Board of Industrial Hygiene (ABIH) may be substituted for the Colorado asbestos Air Monitoring Specialist course.

The GAC shall notify the building owner during bid proposals as to whether or not a project manager is required. Project managers shall be independent of the asbestos abatement contractor and work strictly on behalf of the building owner to the extent feasible, unless the abatement is being performed in-house. Project managers must sign the original copy of the abatement permit for the permit to be valid.

12.0 Disclaimer & Limitations

The activities outlined in this report were conducted in a manner consistent with a level of care and expertise exercised by members of the environmental consulting and industrial hygiene profession. All activities were performed in accordance with all applicable federal, state, and local regulations as well as generally accepted standards and professional practice. No warranty is either expressed or implied. DS assumes no responsibility or liability for error in public information utilized, statements from sources other than DS, or developments resulting from situations outside the scope of this project.

The details provided within this report outline the inspection activities on the date(s) indicated and should not be relied upon to represent conditions at a later date, the limited number of bulk-samples collected, and the laboratory results of those bulk-samples. The laboratory results contained in this report apply specifically to the materials in which bulk-samples were collected. The results do not include or apply to any other materials within the structure that were not sampled, but may contain asbestos; including materials that may be hidden or inaccessible. Additional inspection and bulk-sampling activities would be required to determine if any other materials contain asbestos.

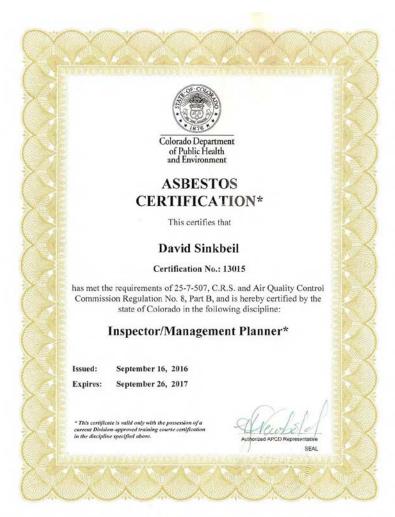
This report has been prepared on behalf of and exclusively for use by the Client, with specific application to their project as discussed in the scope of work. The results of any surfacing material indicated in this report also includes any associated overspray of that material, e.g., under carpet, above suspended ceilings, etc. The information contained in this report is intended as supplementary material for abatement design and is not to be used as the scope of work for abatement activities, bidding or billing purposes. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. DS can provide a full scope of work for abatement upon request. DS does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report.

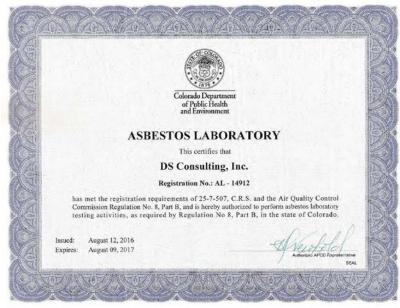
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APPENDIX A

INSPECTOR & FIRM ASBESTOS CERTIFICATES





APPENDIX B ANALYTICAL DATA



September 24, 2016 Subcontract Number: NA

Laboratory Report: RES 361400-1

Project # / P.O. # 14331 Riverdale Rd, Bldg. "D"

Project Description: Brighton

DS Environmental Consulting 12477 W. Cedar Dr., Suite 101 Lakewood CO 80228

Dear Customer,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 361400-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

Jeanne Spencer

Emily A. asey

President

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 361400-1

Client: DS Environmental Consulting
Client Project Number / P.O.: 14331 Riverdale Rd, Bldg. "D"

Client Project Description: Brighton

Date Samples Received: September 21, 2016

Method: EPA 600/R-93/116 - Short Report, Bulk

Turnaround: 3-5 Day

Date Samples Analyzed: September 24, 2016

ND=None Detected
TR=Trace, <1% Visual Estimate
Trem/Act=Tremolite/Actinolite

Client	Lab	L		Asbestos Content	Non	
Sample	ID Number	A	Sub		Asbestos	
Number		Y Physical	Part	Mineral Visual		Components
		E Description		Estimate	Components	
		R	(%)	(%)		(%)
SHIN 1-1	EM 1711854	A Black/white shingle	100	ND	15	85
SHIN 1-2	EM 1711855	A Black/white shingle	100	ND	15	85

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.

Brett S. Colbert

Analyst / Data QA

Due Date 9 - 2 61 5 - 28 Due Time

RESELVOITS FOUNDED FOR 303 964 1986 - Fax 303477-4275 - TOIL Free 866 RESI-ENV Pager: 303-509-2098

INVOICE TO: (IF DIFFERENT)

RES 361400

CONTACT INFORMATION

EM Number (Laborator 75611F LAB NOTES: Use Only) Drinking Water = DW Waste Water = WW Collected "ASTM E1792 approved wipe media only" Time Paint = P Wipe = W Bulk = B F = Food VALID MATRIX CODES Collected 0 = Other Date Cellpager Conlact Phone # Containers 9 % Swab = SW Soil = S Dust = D Air = A Matrix Code (L) / Area Sample Volume dsconsultinginc@msn.com SAMPLER'S INITIALS OR OTHER NOTES Identification, Quantification Dave Sinkbeil +/- or Quantification 720-201-6611 Cuantification JO Final Data Deliverable Email Address Ouantification REQUESTED ANALYSIS 10 Quantification +/- or Quantification -/+ Eualsi7 E coli 0157.H7; Salmonella Cell/pager ORGANICS - METH RCRA 8, TCLP, Welding Fume, Melals Scan METALS - Analyle(s) Respirable JeioT - Tolal, AH20 ,800h1 ,A00h1 bcw 0.11 quant, Micro-vac, ISO-Indirect Preps 'juenn -/+ .O21 ,502, 150, +/-, Short report, Long report, Point Count Wld "Tumaround times establish a laboratory priority, subject to laboratory volume and are not guaranteed. Additional fees 5 Day RD, 810G. "Prior notification is required for RUSH STANDARD 3 Day Address: 48 Hr PRIORITY (Next Day) MICROBIOLOGY LABORATORY HOURS: Weekdays: 9am - 6pm (Sample ID's must be unique) 14331 RIVERDALE BRIGHTON 3-5 Day 2 Day 24 Hr CHEMISTRY LABORATORY, HOURS: Weekdays: 8am - 5pm ASBESTOS'LABORATORY HOURS Weekday's: 7am - 7pm 3-5 Day (Rush PCM = 2hr, TEM = 6hr.) RUSH 5 day 10 day 5 Day Please call Dave with results: 720-201-6611 48 Hr. RUSH 24 hr. 24 hr. 3 day RUSH (Same Day) RUSH Address: 12477 W. Cedar Dr., Suite 101 24 hr. Salmonella, Listeria, E.coli, APC, Y & M akewood, CO 80228 E.coli O157:H7, Coliforms, S.aureus Company DS Consulting, lac Client sample ID number)). RCRA 8 / Metals & Welding rojed Number and/or P.O. # Special Instructions: roject Description & ocation Fume Scan / TCLP PLM / PCM / TEM Metal(s) / Dust S Organics 10 -7 4 2 9 1 00 6 3

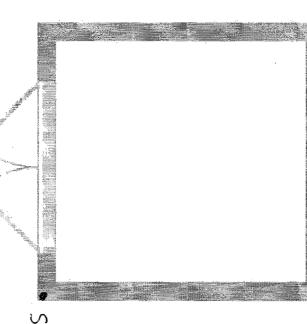
NOTE: REI will analyze incoming samples based upon information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing client/company representative agreement with payment terms of NET 30 days, failure to comply with payment terms may result in a 1.5% monthly interest surcharge. (Additional samples shall be listed on attached long form.)

Number of samples received:

Yes No Initials Initials Yes/No Sealed Yes / No On Ice Time Time Sample Condition: Temp. (F°) Date Date 3:15 PM JUNG Phone Email Fax Phone Email Fax 9-21-16 Carrier Date/Time 30 Contact Contact Initials Initials 人三て i Time Time Date/Time Date Date 1130 mest Phone Email Fax Phone Email Fax Laboratory Use Only Received By: Relinquished By: Contact Contact

APPENDIX C SAMPLE LOCATIONS

SHIN I-2



SHINT

NOT-TO-SCALE BLDG, "D"



Lead-Based Paint Inspection and XRF Testing Report

14451 Riverdale Rd, Brighton, Colorado 80602

Building D

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Robert Neumann DS Environmental Consulting, Inc. 12477 W Cedar Dr, Ste 101 Lakewood, CO 80228 (720) 369 - 6609

Project Details:

Project Number: 15140-D

Conducted: September 21, 2016



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APPENDIX A

Inspector & Firm Lead Certificates

1.0 Introduction

On September 21, 2016, Mr. Robert Neumann with DS Environmental Consulting, Inc. (DS) performed a full lead-based paint (LBP) inspection and performed XRF testing to determine the presence of LBP on painted building components of the commercial building located at 14451 Riverdale Rd, Bldg. D, Brighton, Colorado 80602.

The term "paint" means any liquid mixture, usually of solid pigment in a liquid vehicle, used as a decorative or protective coating. This includes, but is not limited to, primer, lacquer, polyurethane, wood stain, etc. The term "lead-based paint" means any paint having concentrations of lead greater than 1.0 mg/cm², which is also Colorado's action level.

The tan painted wood exterior walls were tested for LBP. The one type of paint was found to be negative for LBP.

2.0 Scope of Work

The scope of the full LBP inspection included all areas of the building defined by the environmental consulting company as listed above. No garage or any out-building on the property were included in the scope of the inspection. The full LBP inspection did not constitute a hazard assessment.

3.0 Site Description

The structure is a wood framed single-level commercial building.

4.0 Certifications

Mr. Neumann and is a Colorado State Certified LBP Inspector; having EPA Accreditation #23292. DS Environmental Consulting, Inc. is a Colorado State Certified Lead Evaluation Firm, license #16918. Mr. Neumann is certified to operate the RMD LPA-1 XRF Lead Paint Spectrum Analyzer by the manufacturer (see Appendix A for certificates).

5.0 Equipment Information

LBP concentrations were obtained using a RMD Model LPA-1 X-ray Florescence (XRF) Lead Paint Spectrum Analyzer, Serial #3317, which is approved by the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) to determine the concentration of lead in paint.

The RMD LPA-1 XRF Lead Paint Spectrum Analyzer was calibrated according to the manufacturer's Performance Characteristic Sheet (PCS). The XRF was calibrated using the calibration standard block of known 1.0 mg/cm² lead content as well as a standard block of known 0.0 mg/cm² lead content. Three (3) calibration reading of each block were taken before the inspection began as well as after the inspection was completed.

6.0 Inspection & Testing Procedures

The LBP inspection and XRF testing were conducted by a State of Colorado accredited LBP Inspector qualified by experience, education, and training in approved LBP testing techniques. These procedures call for the visual inspection of the areas of concern and the collection of XRF readings for lead concentrations.

This inspection was performed in accordance with the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) guidelines for lead-hazard inspections, as well as the State of Colorado Air Quality Control Commission Regulation No. 19 for the Control of Lead Hazards. The EPA's 40 CFR Part 745 Final Rule (January 5, 2001) set standards for the identification of dangerous levels of lead. The standards identify when lead-based paint, lead-contaminated dust, and lead-contaminated soil are hazards. It also establishes residential dust clean-up levels (post-abatement clearance levels) and set dust and soil sampling requirements. The lead-based paint readings were collected by XRF analyzation for the purpose of determining lead concentrations as mg/cm².

7.0 Overview of Findings

The tan painted wood exterior walls were tested for LBP. The one type of paint was found to be negative for LBP.

8.0 Conclusion & Recommendations

Since no LBP was found on the tested components, no further "lead safe" work practices are required when disturbing, removing or impacting the tested components. Additional testing is required if new materials are discovered or the scope of work changes.

9.0 Disclaimer & Limitations

This full LBP inspection does not constitute a full lead-hazard assessment of the building.

10.0 Copyright Notice

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Asbestos Inspection and Sampling Report

14451 Riverdale Rd, Brighton, Colorado

Building E

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Dave Sinkbeil DS Environmental Consulting 12477 W Cedar Dr, Ste 101 Lakewood, CO 80228 (720) 201-6611

Project Details:

Project Number: 15140-E

Conducted: September 21, 2016



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PROJECT OVERVIEW

1.0 Introduction

On September 21, 2016, Mr. Dave Sinkbeil with DS Environmental Consulting (DS) conducted a full-building asbestos inspection and collected asbestos bulk-samples of suspect asbestos-containing materials (ACM) within the entire commercial building located at 14451 Riverdale Rd, Bldg. E, Brighton, Colorado.

The purpose of the full-building inspection was to identify and sample potentially hazardous friable and non-friable ACM that may be impacted by demolition activities. The following are the suspect asbestoscontaining materials that were collected and their respective asbestos content:

The following materials do not contain asbestos:

Black/white roof shingles

2.0 Scope of Work

The scope of the full-building inspection and bulk-sampling encompassed the entire commercial building. Any other out-building or detached garage on the property was not included in the scope of the inspection. The full-building asbestos inspection conducted on September 21, 2016 constituted a full building inspection and fulfills the asbestos inspection requirements for structures that are to be demolished.

3.0 Site Description

The structure is a one-story, 12'x 12', wood constructed commercial building.

4.0 Certifications

The asbestos inspection and bulk-sampling was conducted by Mr. Dave Sinkbeil with DS. DS is a Colorado Department of Public Health and Environment (CDPHE) certified Asbestos Consulting Firm, Registration No. 14912. Mr. Sinkbeil is a CDPHE certified Building Inspector; having certification number 13015 (see Appendix A for certificates).

5.0 Inspection, Sampling & Analytical Procedures

5.1 Inspection Procedures

The full asbestos inspection was conducted by an Environmental Protection Agency (EPA) and CDPHE certified Building Inspector. The inspection procedures included identifying and sampling suspect ACM throughout the building, submitting samples to an accredited laboratory for analysis, classifying the materials and assessing their condition, and compiling a final report detailing the inspection and the analytical results of the bulk-samples.

5.2 Sampling Procedures

Statistically random bulk-samples representative of the suspect ACM of each homogeneous area were collected according to the guidelines published as EPA Final Rule: Title II of the Toxic Substances Control Act (TSCA), 15 USC, Sections 2641 through 2654 and in compliance with 40 CFR, Part 763 and CDPHE Regulation Number 8, Part B - Asbestos (Reg. 8).

DS has collected the appropriate number of bulk-samples to meet all regulatory requirements for the classification and quantity of each homogeneous area. Destructive sampling was conducted in order to locate and quantify suspect ACM from throughout the building.

5.3 Analytical Procedures

All asbestos bulk-samples were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory via Polarized Light Microscopy (PLM) for asbestos content (see Appendix B for laboratory report).

The percentage of asbestos within each individual bulk-sample can vary depending on sample location, homogeneity of the material, and the type of application. Any sample reporting a "TRACE" amount of asbestos must be considered positive for asbestos greater than 1% unless it is re-analyzed utilizing the point-count method and verified to be less than 1%.

Materials containing less than 1% asbestos are not regulated by CDPHE Regulation 8, Part B – Asbestos. However, all demolition/abatement activities should be performed following the applicable Occupational Safety and Health Administration (OSHA) regulations. This would include, but not limited to, the appropriate asbestos training for the type of material being removed/disturbed as well as having a properly trained supervisor onsite, using wet removal methods, wearing adequate personal protective equipment (HEPA-filtered particulate respirators), medical surveillance of workers, personal-exposure air monitoring, area air monitoring in occupied buildings, etc. There may also be landfill disposal requirements for these materials, depending on the facility. DS recommends that all demolition/renovation areas involving any amount of asbestos be subjected to visual inspections and a final clearance air testing by a CDPHE-certified Air Monitoring Specialist (AMS) after the work has been completed, but before any containments are dismantled and the area is reoccupied.

6.0 Homogeneous Areas

A *Homogeneous Area (HA)* includes materials that are uniform in appearance, color, texture and date of application. The asbestos content of the bulk-samples collected within a homogeneous area can be applied to the entire homogeneous area if they conform to the above characteristics and the regulated minimum sample quantities of each type of material are collected and analyzed.

6.1 Material Friability

A material can either be *friable* or *non-friable*. A friable material is one that, when dry, can be pulverized, or reduced to powder by hand pressure, a non-friable material cannot. A non-friable material may become friable if its condition had deteriorated or has been impacted by forces that have rendered it friable.

6.2 Material Classifications

Sampled materials are divided into one of the following three categories:

- *Surfacing Material*: sprayed or troweled onto structural building members
- *Thermal System Insulation (TSI)*: any type of pipe, boiler, tank, or duct insulation
- *Miscellaneous Material*: all other materials not classified in the above two categories

6.3 Material Conditions

Sampled materials are placed into one of the three following categories of conditions:

- *Good*: none to very little visible damage or deterioration
- *Damaged*: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over less than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the damage is localized
- *Significantly Damaged*: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over greater than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the damage is localized

6.4 Sample Quantities

DS collected at least the minimum number of samples from each homogeneous area necessary to meet all regulatory requirements for the quantity of material to be disturbed. The quantities listed in this report are approximate and on-site verification of the exact quantity of each material is required. The following outlines the minimum sample quantities required per homogeneous area:

- Surfacing Materials: up to 1,000 ft² of material requires a minimum of three (3) samples; between 1,000 ft² and 5,000 ft² of material requires a minimum of five (5) samples; over 5,000 ft² of material requires a minimum of seven (7) samples; one (1) sample of each patch
- Thermal System Insulation (TSI): each homogeneous area requires a minimum of three (3) samples; at least one (1) sample must be collected from each patch; and collect enough samples sufficient to adequately assess the material and determine the asbestos content for TSI fittings such as pipe elbows or T's.
- *Miscellaneous Materials*: collect enough samples sufficient to determine the asbestos content

7.0 Overview of Findings

DS collected a total of two (2) asbestos bulk-samples of one (1) homogeneous area. The following are the suspect asbestos-containing materials that were collected and their respective asbestos content:

The following materials do not contain asbestos:

• Black/white roof shingles

Table 1 below describes the materials composing each homogeneous area as well as the locations of each bulk-sample collected. Also listed is the classification, condition, friability and estimated quantity of material to be removed and/or disturbed, as well as the asbestos content within each bulk-sample. Please see *Appendix B: Analytical Data* for the layer break-down of each bulk-sample.

TABLE 1

	HA #	Sample ID	Sample Location	Material Description	Material Classification	Material Condition	Estimated Quantity	Material Friability	Asbestos Content
	1	SHIN1-1	Roof, North Corner	División Des Chinales	NANA	C	1 4 4 Ct-2	Pari alal a	All ND
1	SHIN1-2	Roof, West Corner	Black/white Roof Shingles	MM	u	~144 ft ²	Friable	All ND	

HA - Homogeneous Area	G - Good	CHRY - Chrysotile	SM - Surfacing Material
ND - None-detected	D - Damaged	ACT - Actinolite	MM - Miscellaneous Material
TR - Trace, <1% Visual Estimate	SD - Significantly Damaged		TSI - Thermal System Insulation

8.0 Conclusion & Recommendations

Asbestos was not identified within the materials of the commercial building that were within the scope of the full building inspection and bulk-sampling performed on September 21, 2016; therefore, no professional abatement activities are required to remove or disturb the above-referenced sampled materials.

9.0 Asbestos Abatement & Demolition Requirements

If ACM is to be removed or disturbed in a single-family residence, and the total quantity exceeds any of the regulatory trigger levels of 50 linear ft. on pipes, 32 ft² on other surfaces, or the volume equivalent of a 55-gallon drum, a CDPHE-certified General Abatement Contractor (GAC) is required to perform the work. The regulatory trigger levels within a commercial building are 260 linear ft. on pipes, 160 ft² on other surfaces, or the volume equivalent of a 55-gallon drum. In addition, formal notification to CDPHE prior to the abatement of ACM as well as air monitoring, visual inspections, and final air clearances by a CDPHE-certified Asbestos AMS is required. DS can provide the client or building owner with a proposal for project design, abatement oversight and air monitoring upon request.

CDPHE regulations allow for the demolition of a building that contains non-friable asbestos-containing materials, such as caulking, mastic or resilient floor tiles. However, demolition must be completed without causing the non-friable ACM to be rendered friable. Burning a building with any ACM is prohibited. Operations such as sanding, cutting, crushing, grinding, pneumatic jacking, etc. of ACM are not permitted. Recycling of building materials such as concrete, metal, or wood that are bonded or contaminated with ACM, e.g. glue, caulking, or mastic is also prohibited. If any of the non-friable asbestos containing materials are to be recycled and rendered friable after demolition (i.e. crushing mastic-coated concrete), these materials must be abated of all ACM prior to shipping offsite for recycling.

OSHA regulations regarding occupational exposure during demolition activities is still mandatory. OSHA 29 CFR 1926.1101 requires that workers performing construction-related activities be protected from asbestos fibers in excess of the permissible exposure limit of 0.1 f/cc of air. Contractors are must comply with applicable provisions of OSHA 29 CFR 1926.1101 during demolition and renovation activities. These OSHA provisions include, but are not limited to, PPE and respirators, personnel training, personal-exposure air monitoring, employee medical surveillance, wet removal methods, signage for regulated areas, etc.

10.0 Major & Minor Asbestos Spill Response Actions

If ACM is significantly damaged and the total quantity exceeds the regulatory trigger levels, the area is deemed a "Major Asbestos Spill." The area is consequently subject to the requirements in Reg. 8, Section III.T.1. – *Major Asbestos Spills*, as outlined below. Additional asbestos air or dust sampling should also be conducted within the remaining areas not directly impacted by the Major Asbestos Spill to determine if asbestos-containing dust/debris has spread to adjacent areas. If asbestos fibers are found within any other areas or on building contents, they should be included in the scope of professional abatement and decontamination. The following response actions must be followed per Colorado Reg. 8 when a Major Asbestos Spill occurs:

• Restrict access to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.

- Shut off or temporarily modify the air handling system to prevent the distribution of asbestos fibers to other areas.
- Immediately contact the Division by telephone, submit a notification in compliance with subsection III.E. (Notifications) and, if in an area of public access, apply for a permit in accordance with subsection III.G. (Permits).
- Be exempted from the requirements to have a certified Supervisor on-site at all times, until such time as the immediate danger has passed. Any cleanup or asbestos abatement that must occur after the immediate danger has passed shall be supervised by a person certified by the Division.
- Using certified Supervisors and certified Workers in accordance with section II. (Certification Requirements) of this Regulation, seal all openings between the contaminated and uncontaminated areas and establish none-detected air pressure within the contaminated area in accordance with paragraph III.J. (Air Cleaning and None-detected Pressure Requirements). This is to be accomplished using polyethylene sheeting to cover areas such as doorways, windows, elevator openings, corridor entrances, grills, drains, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, drapes, upholstery, and other non-clothing fabrics in the contaminated area, or discard these materials.
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all surfaces in the contaminated area.
- Discard all materials in accordance with subsection III.R. (Waste Handling).
- Following completion of subparagraph III.T.1.a. through III.T.1.i. above, comply with air monitoring requirements as described in subsection III.P. (Clearing Abatement Projects); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the area and
- Comply with any other measures deemed necessary by the Division to protect public health.

In the event of an asbestos spill involving less than or equal to the trigger levels, the building owner or contractor should take the following non-mandatory steps:

- Restrict entry to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.
- Shut off or temporarily modify the air handling system to prevent the distribution of fibers to other areas in the building.
- Seal all openings between the contaminated and uncontaminated areas. This is to be accomplished by using polyethylene sheeting to cover all areas such as windows, doorways, elevator openings, corridor entrances, drains, grills, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, draperies, upholstery and other non-clothing fabrics in the contaminated area, or discard all contaminated materials in accordance with subsection III.R. (Waste Handling).
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all non-fabric surfaces in the contaminated area.
- Following completion of subparagraphs III.T.2.a. through III.T.2.f. of Regulation 8, conduct air monitoring as described in paragraph III.P.3 of Regulation 8. (Final Clearance Air Monitoring and Sample Analyses); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the work area.

11.0 Project Design & Project Manager Requirements

DS can provide an Asbestos Project Design as well as fulfill the Colorado Asbestos Project Manager requirements for any asbestos abatement project, as applicable below.

Project Design

An abatement *Project Design* is an accurate and detailed scope of work, which includes project specifications and procedures, containment design/equipment placement, and descriptions of engineering controls and work practices for an asbestos abatement project or response action that is required by CDPHE Regulation Number 8, Part B - Asbestos (Reg. 8) on large asbestos abatement projects. Prior to the start of any asbestos abatement project in a non-school building, where the amount of asbestos-containing material (ACM) to be removed or disturbed exceeds 1,000 linear feet on pipes, or 3,000 square feet on surfaces, or in a school building in which the amount of friable ACM to be abated exceeds 3 linear feet on pipes, or 3 square feet on surfaces, a written Project Design must be developed by a State of Colorado certified Project Designer in accordance with subsection IV.G.7 of Regulation 8. A signed copy shall be posted on-site prior to commencing any abatement activities, shall be available onsite at all times, and shall remain onsite until final air clearances have been completed by a State of Colorado-certified Air Monitoring Specialist (AMS).

Project Manager

A *Project Manager* shall be used on all asbestos abatement projects in which the amount of friable asbestos-containing material to be abated exceeds 1,000 linear feet on pipes, or 3,000 square feet on other surfaces per CDPHE Regulation Number 8, Part B – Section III.B.6. An asbestos Project Manager on an abatement project shall be responsible for assessing that the project is conducted in accordance with Regulation 8, assessing that the Project Design is followed, assessing that the abatement project is cleared in accordance with Regulation 8, assessing that the asbestos waste generated on the project is properly manifested and disposed of in accordance with Regulation 8, and communicating these assessments to the building owner or GAC. Project Managers must have proof of Colorado certification as an asbestos Project Designer and Air Monitoring Specialist in accordance with Section II of CDPHE Regulation 8 as well as a minimum of one (1) year of experience supervising, overseeing or monitoring asbestos abatement projects. A 4-year college degree in industrial hygiene, a degree in environmental health with a major concentration in industrial hygiene, or the possession of a certified industrial hygienist (CIH) certificate given by the American Board of Industrial Hygiene (ABIH) may be substituted for the Colorado asbestos Air Monitoring Specialist course.

The GAC shall notify the building owner during bid proposals as to whether or not a project manager is required. Project managers shall be independent of the asbestos abatement contractor and work strictly on behalf of the building owner to the extent feasible, unless the abatement is being performed in-house. Project managers must sign the original copy of the abatement permit for the permit to be valid.

12.0 Disclaimer & Limitations

The activities outlined in this report were conducted in a manner consistent with a level of care and expertise exercised by members of the environmental consulting and industrial hygiene profession. All activities were performed in accordance with all applicable federal, state, and local regulations as well as generally accepted standards and professional practice. No warranty is either expressed or implied. DS assumes no responsibility or liability for error in public information utilized, statements from sources other than DS, or developments resulting from situations outside the scope of this project.

The details provided within this report outline the inspection activities on the date(s) indicated and should not be relied upon to represent conditions at a later date, the limited number of bulk-samples collected, and the laboratory results of those bulk-samples. The laboratory results contained in this report apply specifically to the materials in which bulk-samples were collected. The results do not include or apply to any other materials within the structure that were not sampled, but may contain asbestos; including materials that may be hidden or inaccessible. Additional inspection and bulk-sampling activities would be required to determine if any other materials contain asbestos.

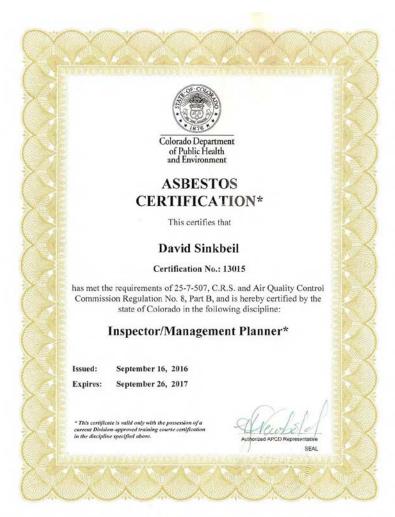
This report has been prepared on behalf of and exclusively for use by the Client, with specific application to their project as discussed in the scope of work. The results of any surfacing material indicated in this report also includes any associated overspray of that material, e.g., under carpet, above suspended ceilings, etc. The information contained in this report is intended as supplementary material for abatement design and is not to be used as the scope of work for abatement activities, bidding or billing purposes. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. DS can provide a full scope of work for abatement upon request. DS does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report.

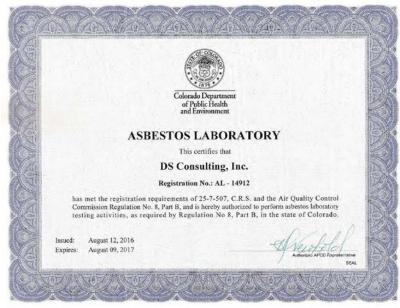
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APPENDIX A

INSPECTOR & FIRM ASBESTOS CERTIFICATES





APPENDIX B ANALYTICAL DATA



September 24, 2016 Subcontract Number: NA

Laboratory Report: RES 361399-1

Project # / P.O. # 14331 Riverdale Rd, Bldg. "E"

Project Description: Brighton

DS Environmental Consulting 12477 W. Cedar Dr., Suite 101 Lakewood CO 80228

Dear Customer,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 361399-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

Jeanne Spencer

Emily A. asey

President

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 361399-1

Client: DS Environmental Consulting
Client Project Number / P.O.: 14331 Riverdale Rd, Bldg. "E"

Client Project Description: Brighton

Date Samples Received: September 21, 2016

Method: EPA 600/R-93/116 - Short Report, Bulk

Turnaround: 3-5 Day

Date Samples Analyzed: September 24, 2016

ND=None Detected
TR=Trace, <1% Visual Estimate
Trem/Act=Tremolite/Actinolite

Client	Lab	L		Asbestos Content	Non	
Sample Number	ID Number	A	Sub Part	Mineral Visual	Asbestos Fibrous	Fibrous Components
		E Description	(%)	Estimate (%)	Components (%)	
SHIN 1-1	EM 1711856	A Black/white shingle	100	ND	15	85
SHIN 1-2	EM 1711857	A Black/white shingle	100	ND	15	85

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.

Brett S. Colbert

Analyst / Data QA

Due Date 9-26-28 Due Time

RES 361399

CONTACT INFORMATION

Confact

A Reservoirs Environmental, Inc. 5801 Logan St. Denver, CO 80216 · Ph. 303 964-1985 · Fax 303-477-4275 · Toll Free 866 RESI-ENV

Pager: 303-509-2098

Contact

INVOICE TO: (IF DIFFERENT)

Company

Company

EM Number (Laborator 71135 LAB NOTES: Usa Only) NOTE: REI will analyze incoming samples based upon information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing client/company representative agrees that submission of the following samples for requested Collected Drinking Water = DW Waste Water = WW "ASTM E1792 approved wipe media only" Time Paint = P Wipe = W F = Food Bulk = B VALID MATRIX CODES Collected Date O = Other Cellpager Phone # Containers Swab = SW Fax: Dust = D Soil = S Air = A Matrix Code (L) / Area Sample Volume dsconsultinginc@msn.com SAMPLER'S INITIALS OR OTHER NOTES Identification, Quantification Dave Sinkbeil or Quantification 720-201-6611 Quantification 10 -/+ Final Data Deliverable Email Address **Ouantification** analysis as indicated on this Chain of Custody shall constitute an analytical services agreement with payment terms of NET 30 days, failure to comply with payment terms may result in a 1.5% mis REQUESTED ANALYSIS 10 Ouanlification or Quantification -/+ ensisiJ E coli 0157 H7: +1. Salmonella: Cellipager ORGANICS - METH Phone RCRA 8, TCLP, Welding Fume, Melals Scan METALS - Analyle(s) (Additional samples shall be listed on attached long form.) Respirable . Tolal. ISNO AH20 ,800% 7400A En 150-Indirect Preps Level II, 7402, ISO, +/-, AHERA. Short report, Long report, Point Count 11 "Tumaround times establish a laboratory phonty, subject to laboratory volume and are not guaranteed. Additional fees apply for afterhours, weekends and holidays." 5 Day 8109 Prior notification is required for RUSH furnarounds." RUSH (Same Day) PRIORITY (Next Day) VSTANDARD 3 Day 4 3-5 Day RD. Address 48 Hr MICROBIOLOGY LABORATORY HOURS: Weekdays: 9am - 6pm (Sample ID's must be unique) 14331 RIVERDALE BRIGHTON 3-5 Day 2 Day 24 Hr CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm (Rush PCM = 2hr, TEM = 6hr.) RUSH 24 hr. 3-5 Day RUSH 5 day 10 day ASBESTOS L'ABORATORY HOURS Weekdays: 7am - 7pm Please call Dave with results: 720-201-6611 RUSH 3 day 24 hr. 48 Hr ADDIEST 12477 W Cedar Dr., Suite 101 24 hr. Salmonella, Listeria, E.coli, APC, Y & M Lakewood, CO 80228 E.coli O157:H7, Coliforms, S.aureus DS Consulting, Inc. Client sample ID number Number of samples received RCRA 8 / Metals & Welding 1 Project Number and/or P.O. #. NHIN Special Instructions SHIN Project Description Location. Fume Scan / TCLP 1 PLM / PCM / TEM Metal(s) / Dust Organics Mold 10 4 2 9 00 0 7 3

7-2011 version 1

Yes 7No

Yes/No Sealed

Yes / No

On Ice

Sample Condition:

3:15 PM

9-21-16

Date/Time

Temp. (F°)

Jano Phone Email Fax Phone Email Fax

Carner

30

9

2.216

Date/Time.

115am

Laboratory Use Only Received By

Contact Contact

Results

Relinquished By:

Contact Contact

Initials

Time Time

Date Date

Phone Email Fax Phone Email Fax

Initials

Initials Initials

Time Time

Date Date

APPENDIX C SAMPLE LOCATIONS

SHIN -2

BLDG. "E" NOT-TO-SCALE



Lead-Based Paint Inspection and XRF Testing Report

14451 Riverdale Rd, Brighton, Colorado 80602

Building E

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Robert Neumann DS Environmental Consulting, Inc. 12477 W Cedar Dr, Ste 101 Lakewood, CO 80228 (720) 369 - 6609

Project Details:

Project Number: 15140-E

Conducted: September 21, 2016



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APPENDIX A

Inspector & Firm Lead Certificates

PROJECT OVERVIEW

1.0 Introduction

On September 21, 2016, Mr. Robert Neumann with DS Environmental Consulting, Inc. (DS) performed a full lead-based paint (LBP) inspection and performed XRF testing to determine the presence of LBP on painted building components of the commercial building located at 14451 Riverdale Rd, Bldg. E, Brighton, Colorado 80602.

The term "paint" means any liquid mixture, usually of solid pigment in a liquid vehicle, used as a decorative or protective coating. This includes, but is not limited to, primer, lacquer, polyurethane, wood stain, etc. The term "lead-based paint" means any paint having concentrations of lead greater than 1.0 mg/cm², which is also Colorado's action level.

The tan painted exterior walls were tested for LBP. The one type of paint was found to be negative for LBP.

2.0 Scope of Work

The scope of the full LBP inspection included all areas of the building defined by the environmental consulting company as listed above. No garage or any out-building on the property were included in the scope of the inspection. The full LBP inspection did not constitute a hazard assessment.

3.0 Site Description

The structure is a wood framed, single-level commercial building.

4.0 Certifications

Mr. Neumann and is a Colorado State Certified LBP Inspector; having EPA Accreditation #23292. DS Environmental Consulting, Inc. is a Colorado State Certified Lead Evaluation Firm, license #16918. Mr. Neumann is certified to operate the RMD LPA-1 XRF Lead Paint Spectrum Analyzer by the manufacturer (see Appendix A for certificates).

5.0 Equipment Information

LBP concentrations were obtained using a RMD Model LPA-1 X-ray Florescence (XRF) Lead Paint Spectrum Analyzer, Serial #3317, which is approved by the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) to determine the concentration of lead in paint.

The RMD LPA-1 XRF Lead Paint Spectrum Analyzer was calibrated according to the manufacturer's Performance Characteristic Sheet (PCS). The XRF was calibrated using the calibration standard block of known 1.0 mg/cm² lead content as well as a standard block of known 0.0 mg/cm² lead content. Three (3) calibration reading of each block were taken before the inspection began as well as after the inspection was completed.

6.0 Inspection & Testing Procedures

The LBP inspection and XRF testing were conducted by a State of Colorado accredited LBP Inspector qualified by experience, education, and training in approved LBP testing techniques. These procedures call for the visual inspection of the areas of concern and the collection of XRF readings for lead concentrations.

This inspection was performed in accordance with the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) guidelines for lead-hazard inspections, as well as the State of Colorado Air Quality Control Commission Regulation No. 19 for the Control of Lead Hazards. The EPA's 40 CFR Part 745 Final Rule (January 5, 2001) set standards for the identification of dangerous levels of lead. The standards identify when lead-based paint, lead-contaminated dust, and lead-contaminated soil are hazards. It also establishes residential dust clean-up levels (post-abatement clearance levels) and set dust and soil sampling requirements. The lead-based paint readings were collected by XRF analyzation for the purpose of determining lead concentrations as mg/cm².

7.0 Overview of Findings

The tan painted exterior walls were tested for LBP. The one type of paint was found to be negative for LBP.

8.0 Conclusion & Recommendations

Since no LBP was found on the tested components, no further "lead safe" work practices are required when disturbing, removing or impacting the tested components. Additional testing is required if new materials are discovered or the scope of work changes.

9.0 Disclaimer & Limitations

This full inspection does not constitute a full lead-hazard assessment of the building.

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Asbestos Inspection and Sampling Report

14451 Riverdale Rd, Brighton, Colorado

Building F

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Dave Sinkbeil DS Environmental Consulting 12477 W Cedar Dr, Ste 101 Lakewood, CO 80228 (720) 201-6611

Project Details:

Project Number: 15140-F

Conducted: September 21, 2016



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PROJECT OVERVIEW

1.0 Introduction

On September 21, 2016, Mr. Dave Sinkbeil with DS Environmental Consulting (DS) conducted a full-building asbestos inspection and collected asbestos bulk-samples of suspect asbestos-containing materials (ACM) within the entire commercial building located at 14451 Riverdale Rd, Bldg. F, Brighton, Colorado.

The purpose of the full-building inspection was to identify and sample potentially hazardous friable and non-friable ACM that may be impacted by demolition activities. The following are the suspect asbestoscontaining materials that were collected and their respective asbestos content:

The following materials do not contain asbestos:

Black/white roof shingles

2.0 Scope of Work

The scope of the full-building inspection and bulk-sampling encompassed the entire commercial building. Any other out-building or detached garage on the property was not included in the scope of the inspection. The full-building asbestos inspection conducted on September 21, 2016 constituted a full building inspection and fulfills the asbestos inspection requirements for structures that are to be demolished.

3.0 Site Description

The structure is a one-story, 4'x 8', wood constructed commercial building.

4.0 Certifications

The asbestos inspection and bulk-sampling was conducted by Mr. Dave Sinkbeil with DS. DS is a Colorado Department of Public Health and Environment (CDPHE) certified Asbestos Consulting Firm, Registration No. 14912. Mr. Sinkbeil is a CDPHE certified Building Inspector; having certification number 13015 (see Appendix A for certificates).

5.0 Inspection, Sampling & Analytical Procedures

5.1 Inspection Procedures

The full asbestos inspection was conducted by an Environmental Protection Agency (EPA) and CDPHE certified Building Inspector. The inspection procedures included identifying and sampling suspect ACM throughout the building, submitting samples to an accredited laboratory for analysis, classifying the materials and assessing their condition, and compiling a final report detailing the inspection and the analytical results of the bulk-samples.

5.2 Sampling Procedures

Statistically random bulk-samples representative of the suspect ACM of each homogeneous area were collected according to the guidelines published as EPA Final Rule: Title II of the Toxic Substances Control Act (TSCA), 15 USC, Sections 2641 through 2654 and in compliance with 40 CFR, Part 763 and CDPHE Regulation Number 8, Part B - Asbestos (Reg. 8).

DS has collected the appropriate number of bulk-samples to meet all regulatory requirements for the classification and quantity of each homogeneous area. Destructive sampling was conducted in order to locate and quantify suspect ACM from throughout the building.

5.3 Analytical Procedures

All asbestos bulk-samples were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory via Polarized Light Microscopy (PLM) for asbestos content (see Appendix B for laboratory report).

The percentage of asbestos within each individual bulk-sample can vary depending on sample location, homogeneity of the material, and the type of application. Any sample reporting a "TRACE" amount of asbestos must be considered positive for asbestos greater than 1% unless it is re-analyzed utilizing the point-count method and verified to be less than 1%.

Materials containing less than 1% asbestos are not regulated by CDPHE Regulation 8, Part B – Asbestos. However, all demolition/abatement activities should be performed following the applicable Occupational Safety and Health Administration (OSHA) regulations. This would include, but not limited to, the appropriate asbestos training for the type of material being removed/disturbed as well as having a properly trained supervisor onsite, using wet removal methods, wearing adequate personal protective equipment (HEPA-filtered particulate respirators), medical surveillance of workers, personal-exposure air monitoring, area air monitoring in occupied buildings, etc. There may also be landfill disposal requirements for these materials, depending on the facility. DS recommends that all demolition/renovation areas involving any amount of asbestos be subjected to visual inspections and a final clearance air testing by a CDPHE-certified Air Monitoring Specialist (AMS) after the work has been completed, but before any containments are dismantled and the area is reoccupied.

6.0 Homogeneous Areas

A *Homogeneous Area (HA)* includes materials that are uniform in appearance, color, texture and date of application. The asbestos content of the bulk-samples collected within a homogeneous area can be applied to the entire homogeneous area if they conform to the above characteristics and the regulated minimum sample quantities of each type of material are collected and analyzed.

6.1 Material Friability

A material can either be *friable* or *non-friable*. A friable material is one that, when dry, can be pulverized, or reduced to powder by hand pressure, a non-friable material cannot. A non-friable material may become friable if its condition had deteriorated or has been impacted by forces that have rendered it friable.

6.2 Material Classifications

Sampled materials are divided into one of the following three categories:

• *Surfacing Material*: sprayed or troweled onto structural building members

- Thermal System Insulation (TSI): any type of pipe, boiler, tank, or duct insulation
- *Miscellaneous Material*: all other materials not classified in the above two categories

6.3 Material Conditions

Sampled materials are placed into one of the three following categories of conditions:

- *Good*: none to very little visible damage or deterioration
- *Damaged*: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over less than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the damage is localized
- *Significantly Damaged*: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over greater than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the damage is localized

6.4 Sample Quantities

DS collected at least the minimum number of samples from each homogeneous area necessary to meet all regulatory requirements for the quantity of material to be disturbed. The quantities listed in this report are approximate and on-site verification of the exact quantity of each material is required. The following outlines the minimum sample quantities required per homogeneous area:

- *Surfacing Materials*: up to 1,000 ft² of material requires a minimum of three (3) samples; between 1,000 ft² and 5,000 ft² of material requires a minimum of five (5) samples; over 5,000 ft² of material requires a minimum of seven (7) samples; one (1) sample of each patch
- Thermal System Insulation (TSI): each homogeneous area requires a minimum of three (3) samples; at least one (1) sample must be collected from each patch; and collect enough samples sufficient to adequately assess the material and determine the asbestos content for TSI fittings such as pipe elbows or T's.
- *Miscellaneous Materials*: collect enough samples sufficient to determine the asbestos content

7.0 Overview of Findings

DS collected a total of two (2) asbestos bulk-samples of one (1) homogeneous area. The following are the suspect asbestos-containing materials that were collected and their respective asbestos content:

The following materials do not contain asbestos:

• Black/white roof shingles

Table 1 below describes the materials composing each homogeneous area as well as the locations of each bulk-sample collected. Also listed is the classification, condition, friability and estimated quantity of material to be removed and/or disturbed, as well as the asbestos content within each bulk-sample. Please see *Appendix B: Analytical Data* for the layer break-down of each bulk-sample.

TABLE 1

<i>H</i>	HA #	Sample ID	Sample Location	Material Description	Material Classification	Material Condition	Estimated Quantity	Material Friability	Asbestos Content
1	1	SHIN1-1	Roof, North-west Side	Black/white Roof Shingles	ММ	G	~32 ft²	Friable	All ND
	L	SHIN1-2	Roof, North-west Side						

HA - Homogeneous Area	G - Good	CHRY - Chrysotile	SM - Surfacing Material
ND - None-detected	D - Damaged	ACT - Actinolite	MM - Miscellaneous Material
TR - Trace, <1% Visual Estimate	SD - Significantly Damaged		TSI - Thermal System Insulation

8.0 Conclusion & Recommendations

Asbestos was not identified within the materials of the commercial building that were within the scope of the full building inspection and bulk-sampling performed on September 21, 2016; therefore, no professional abatement activities are required to remove or disturb the above-referenced sampled materials.

9.0 Asbestos Abatement & Demolition Requirements

If ACM is to be removed or disturbed in a single-family residence, and the total quantity exceeds any of the regulatory trigger levels of 50 linear ft. on pipes, 32 ft² on other surfaces, or the volume equivalent of a 55-gallon drum, a CDPHE-certified General Abatement Contractor (GAC) is required to perform the work. The regulatory trigger levels within a commercial building are 260 linear ft. on pipes, 160 ft² on other surfaces, or the volume equivalent of a 55-gallon drum. In addition, formal notification to CDPHE prior to the abatement of ACM as well as air monitoring, visual inspections, and final air clearances by a CDPHE-certified Asbestos AMS is required. DS can provide the client or building owner with a proposal for project design, abatement oversight and air monitoring upon request.

CDPHE regulations allow for the demolition of a building that contains non-friable asbestos-containing materials, such as caulking, mastic or resilient floor tiles. However, demolition must be completed without causing the non-friable ACM to be rendered friable. Burning a building with any ACM is prohibited. Operations such as sanding, cutting, crushing, grinding, pneumatic jacking, etc. of ACM are not permitted. Recycling of building materials such as concrete, metal, or wood that are bonded or contaminated with ACM, e.g. glue, caulking, or mastic is also prohibited. If any of the non-friable asbestos containing materials are to be recycled and rendered friable after demolition (i.e. crushing mastic-coated concrete), these materials must be abated of all ACM prior to shipping offsite for recycling.

OSHA regulations regarding occupational exposure during demolition activities is still mandatory. OSHA 29 CFR 1926.1101 requires that workers performing construction-related activities be protected from asbestos fibers in excess of the permissible exposure limit of 0.1 f/cc of air. Contractors are must comply with applicable provisions of OSHA 29 CFR 1926.1101 during demolition and renovation activities. These OSHA provisions include, but are not limited to, PPE and respirators, personnel training, personal-exposure air monitoring, employee medical surveillance, wet removal methods, signage for regulated areas, etc.

10.0 Major & Minor Asbestos Spill Response Actions

If ACM is significantly damaged and the total quantity exceeds the regulatory trigger levels, the area is deemed a "Major Asbestos Spill." The area is consequently subject to the requirements in Reg. 8, Section III.T.1. – *Major Asbestos Spills*, as outlined below. Additional asbestos air or dust sampling should also be conducted within the remaining areas not directly impacted by the Major Asbestos Spill to determine if asbestos-containing dust/debris has spread to adjacent areas. If asbestos fibers are found within any other areas or on building contents, they should be included in the scope of professional abatement and decontamination. The following response actions must be followed per Colorado Reg. 8 when a Major Asbestos Spill occurs:

• Restrict access to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.

- Shut off or temporarily modify the air handling system to prevent the distribution of asbestos fibers to other areas.
- Immediately contact the Division by telephone, submit a notification in compliance with subsection III.E. (Notifications) and, if in an area of public access, apply for a permit in accordance with subsection III.G. (Permits).
- Be exempted from the requirements to have a certified Supervisor on-site at all times, until such time as the immediate danger has passed. Any cleanup or asbestos abatement that must occur after the immediate danger has passed shall be supervised by a person certified by the Division.
- Using certified Supervisors and certified Workers in accordance with section II. (Certification Requirements) of this Regulation, seal all openings between the contaminated and uncontaminated areas and establish none-detected air pressure within the contaminated area in accordance with paragraph III.J. (Air Cleaning and None-detected Pressure Requirements). This is to be accomplished using polyethylene sheeting to cover areas such as doorways, windows, elevator openings, corridor entrances, grills, drains, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, drapes, upholstery, and other non-clothing fabrics in the contaminated area, or discard these materials.
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all surfaces in the contaminated area.
- Discard all materials in accordance with subsection III.R. (Waste Handling).
- Following completion of subparagraph III.T.1.a. through III.T.1.i. above, comply with air monitoring requirements as described in subsection III.P. (Clearing Abatement Projects); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the area and
- Comply with any other measures deemed necessary by the Division to protect public health.

In the event of an asbestos spill involving less than or equal to the trigger levels, the building owner or contractor should take the following non-mandatory steps:

- Restrict entry to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.
- Shut off or temporarily modify the air handling system to prevent the distribution of fibers to other areas in the building.
- Seal all openings between the contaminated and uncontaminated areas. This is to be accomplished by using polyethylene sheeting to cover all areas such as windows, doorways, elevator openings, corridor entrances, drains, grills, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, draperies, upholstery and other non-clothing fabrics in the contaminated area, or discard all contaminated materials in accordance with subsection III.R. (Waste Handling).
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all non-fabric surfaces in the contaminated area.
- Following completion of subparagraphs III.T.2.a. through III.T.2.f. of Regulation 8, conduct air monitoring as described in paragraph III.P.3 of Regulation 8. (Final Clearance Air Monitoring and Sample Analyses); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the work area.

11.0 Project Design & Project Manager Requirements

DS can provide an Asbestos Project Design as well as fulfill the Colorado Asbestos Project Manager requirements for any asbestos abatement project, as applicable below.

Project Design

An abatement *Project Design* is an accurate and detailed scope of work, which includes project specifications and procedures, containment design/equipment placement, and descriptions of engineering controls and work practices for an asbestos abatement project or response action that is required by CDPHE Regulation Number 8, Part B - Asbestos (Reg. 8) on large asbestos abatement projects. Prior to the start of any asbestos abatement project in a non-school building, where the amount of asbestos-containing material (ACM) to be removed or disturbed exceeds 1,000 linear feet on pipes, or 3,000 square feet on surfaces, or in a school building in which the amount of friable ACM to be abated exceeds 3 linear feet on pipes, or 3 square feet on surfaces, a written Project Design must be developed by a State of Colorado certified Project Designer in accordance with subsection IV.G.7 of Regulation 8. A signed copy shall be posted on-site prior to commencing any abatement activities, shall be available on-site at all times, and shall remain onsite until final air clearances have been completed by a State of Colorado-certified Air Monitoring Specialist (AMS).

Project Manager

A *Project Manager* shall be used on all asbestos abatement projects in which the amount of friable asbestos-containing material to be abated exceeds 1,000 linear feet on pipes, or 3,000 square feet on other surfaces per CDPHE Regulation Number 8, Part B – Section III.B.6. An asbestos Project Manager on an abatement project shall be responsible for assessing that the project is conducted in accordance with Regulation 8, assessing that the Project Design is followed, assessing that the abatement project is cleared in accordance with Regulation 8, assessing that the asbestos waste generated on the project is properly manifested and disposed of in accordance with Regulation 8, and communicating these assessments to the building owner or GAC. Project Managers must have proof of Colorado certification as an asbestos Project Designer and Air Monitoring Specialist in accordance with Section II of CDPHE Regulation 8 as well as a minimum of one (1) year of experience supervising, overseeing or monitoring asbestos abatement projects. A 4-year college degree in industrial hygiene, a degree in environmental health with a major concentration in industrial hygiene, or the possession of a certified industrial hygienist (CIH) certificate given by the American Board of Industrial Hygiene (ABIH) may be substituted for the Colorado asbestos Air Monitoring Specialist course.

The GAC shall notify the building owner during bid proposals as to whether or not a project manager is required. Project managers shall be independent of the asbestos abatement contractor and work strictly on behalf of the building owner to the extent feasible, unless the abatement is being performed in-house. Project managers must sign the original copy of the abatement permit for the permit to be valid.

12.0 Disclaimer & Limitations

The activities outlined in this report were conducted in a manner consistent with a level of care and expertise exercised by members of the environmental consulting and industrial hygiene profession. All activities were performed in accordance with all applicable federal, state, and local regulations as well as generally accepted standards and professional practice. No warranty is either expressed or implied. DS assumes no responsibility or liability for error in public information utilized, statements from sources other than DS, or developments resulting from situations outside the scope of this project.

The details provided within this report outline the inspection activities on the date(s) indicated and should not be relied upon to represent conditions at a later date, the limited number of bulk-samples collected, and the laboratory results of those bulk-samples. The laboratory results contained in this report apply specifically to the materials in which bulk-samples were collected. The results do not include or apply to any other materials within the structure that were not sampled, but may contain asbestos; including materials that may be hidden or inaccessible. Additional inspection and bulk-sampling activities would be required to determine if any other materials contain asbestos.

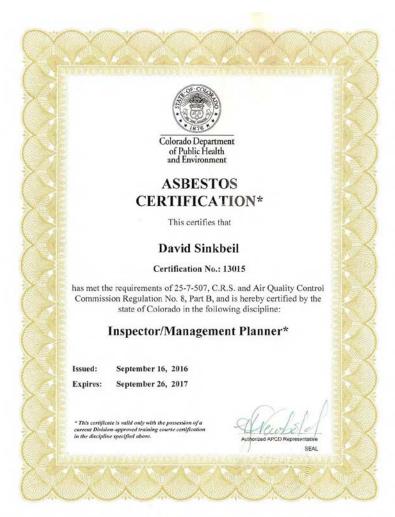
This report has been prepared on behalf of and exclusively for use by the Client, with specific application to their project as discussed in the scope of work. The results of any surfacing material indicated in this report also includes any associated overspray of that material, e.g., under carpet, above suspended ceilings, etc. The information contained in this report is intended as supplementary material for abatement design and is not to be used as the scope of work for abatement activities, bidding or billing purposes. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. DS can provide a full scope of work for abatement upon request. DS does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report.

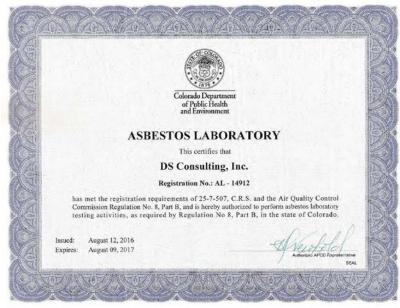
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APPENDIX A

INSPECTOR & FIRM ASBESTOS CERTIFICATES





APPENDIX B ANALYTICAL DATA



September 24, 2016 Subcontract Number: NA

Laboratory Report: RES 361398-1

Project # / P.O. # 14331 Riverdale Rd, Bldg. "F"

Project Description: Brighton

DS Environmental Consulting 12477 W. Cedar Dr., Suite 101 Lakewood CO 80228

Dear Customer,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 361398-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

Jeanne Spencer

Emily A. asey

President

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 361398-1

Client: DS Environmental Consulting
Client Project Number / P.O.: 14331 Riverdale Rd, Bldg. "F"

Client Project Description: Brighton

Date Samples Received: September 21, 2016

Method: EPA 600/R-93/116 - Short Report, Bulk

Turnaround: 3-5 Day

Date Samples Analyzed: September 24, 2016

ND=None Detected
TR=Trace, <1% Visual Estimate
Trem/Act=Tremolite/Actinolite

Client Sample	Lab ID Number	L A	Sub	Asbestos Content	Non Asbestos	_
Number	ib italliber	Y Physical E Description		Mineral Visual	Fibrous	Components
		R Description	(%)	Estimate (%)	Components (%)	(%)
SHIN 1-1	EM 1711858	A Black/white shingle	100	ND	15	85
SHIN 1-2	EM 1711859	A Black/white shingle	100	ND	15	85

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.

Brett S. Colbert

Analyst / Data QA

Due Date: Due Time

AB Reservoirs Environmental, Inc.

5801 Legan St. Denver, CO 80216 · Ph. 303 964-1986 · Fax 303-477-4275 · Toll Free . 856 RESI: ENV

INVOICE TO: (IF DIFFERENT) Pager : 303-509-2098

RES 361398

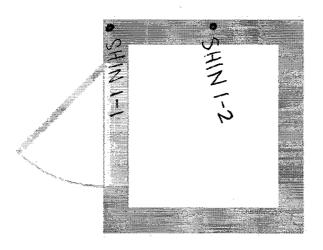
CONTACT INFORMATION

EM Number (Laborator 8 LAB NOTES: Usa Only) 7118 Waste Water = WW Collected "ASTM E1792 approved wipe media only" Time Paint = P Wipe = W F = Food Bulk = B VALID MATRIX CODES Collected 0 = Other Date Drinking Water = DW Cellpager Conlact Phone: # Containers Swab = SW Fax Dust = D Soil = S Air = A Matrix Code (L) / Area Sample Volume dsconsultinginc@msn.com SAMPLER'S INITIALS OR OTHER NOTES Identification, Quantification 10 Quantification Dave Sinkbeil 720-201-6611 Quantification 10 Final Data Deliverable Email Address Ouantification REQUESTED ANALYSIS 10 Quantification or Quantification -/+ : TH: TE 10 1100 3 Salmonella: Cell/pager ORGANICS - METH Contact Phone RCRA 8, TCLP, Welding Fume, Melals Scan METALS - Analyle(s) (Additional samples shall be listed on attached long form.) Respirable . Total. ISNO 7400B, OSHA ,A0047 bcw ISO-Indirect Preps D AHERA, Level II, 7402, ISO, +/-, Quant, Short report, Long report, Point Count 11 "Turnaround times establish a laboratory priority, subject to laboratory yolume and are not guaranteed. Additional fees 5 Day B10G. -"Prior notification is required for RUSH RUSH (Same Day) PRIORITY (Next Day) VSTANDARD 3 Day 3-5 Day RD Company Address 48 Hr MICROBIOLOGY LABORATORY HOURS: Weekdays: 9am - 6pm (Sample ID's must be unique) 14331 RIVERDALE BRIGHTON 3-5 Day __2 Day 24 Hr CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm (Rush PCM = 2hr, TEM = 6hr.) RUSH 24 hr. 3-5 Day ASBESTOS L'ABORATORY HOURS Weekdays 7am - 7pm 5 day 10 day 3 day 5 Day Please call Dave with results: 720-201-6611 RUSH 24 hr. 48 Hr. Address: 12477 W Cedar Dr., Suite 101 RUSH 24 hr. Salmonella, Listeria, E.coli, APC, Y & M Lakewood, CO 80228 E.coli O157:H7, Coliforms, S.aureus DS Consulting, loc Client sample ID number 1-1 Number of samples received RCRA 8 / Metals & Welding SHIN Project Number and/or P.O. #; Special Instructions: Project Description Location SHIN Fume Scan / TCLP PLM / PCM / TEM Metal(s) / Dust Organics Mold 9 œ 2 3 4 2 9 0

NOTE: RE will analyze incoming samples based upon information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing client/company representative agrees that submission of the following samples for requested lly interest surcharge with payment terms of NET 30 days, failure to comply with payment terms

Yes No Initials Initials Yes/No Yes / No On Ice Time Time Sample Condition Temp. (F°) Date Date 3:15 PM Phone Email Fax Phone Email Fax CONC 9-21-16 Carner Date/Time Contact Contact Initials 11.12.6 Time Time Date/Time Date Date Phone Email Fax Phone Email Fax Sam Received By: Contact Relinquished By: Contact Contact

APPENDIX C SAMPLE LOCATIONS



NOT-TO-SCALE
BLDG, "F"

X



Lead-Based Paint Inspection and XRF Testing Report

14451 Riverdale Rd, Brighton, Colorado 80602

Building F

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Robert Neumann DS Environmental Consulting, Inc. 12477 W Cedar Dr, Ste 101 Lakewood, CO 80228 (720) 369 - 6609

Project Details:

Project Number: 15140-F

Conducted: September 21, 2016



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APPENDIX A

Inspector & Firm Lead Certificates

1.0 Introduction

On September 21, 2016, Mr. Robert Neumann with DS Environmental Consulting, Inc. (DS) performed a full lead-based paint (LBP) inspection and performed XRF testing to determine the presence of LBP on painted building components of the commercial building located at 14451 Riverdale Rd, Bldg. F, Brighton, Colorado 80602.

The term "paint" means any liquid mixture, usually of solid pigment in a liquid vehicle, used as a decorative or protective coating. This includes, but is not limited to, primer, lacquer, polyurethane, wood stain, etc. The term "lead-based paint" means any paint having concentrations of lead greater than 1.0 mg/cm², which is also Colorado's action level.

The tan painted exterior walls were tested for LBP. All types of paint were found to be negative for LBP.

2.0 Scope of Work

The scope of the full LBP inspection included all areas of the building defined by the environmental consulting company as listed above. No garage or any out-building on the property were included in the scope of the inspection. The full LBP inspection did not constitute a hazard assessment.

3.0 Site Description

The structure is a wood framed, single-level commercial building.

4.0 Certifications

Mr. Neumann and is a Colorado State Certified LBP Inspector; having EPA Accreditation #23292. DS Environmental Consulting, Inc. is a Colorado State Certified Lead Evaluation Firm, license #16918. Mr. Neumann is certified to operate the RMD LPA-1 XRF Lead Paint Spectrum Analyzer by the manufacturer (see Appendix A for certificates).

5.0 Equipment Information

LBP concentrations were obtained using a RMD Model LPA-1 X-ray Florescence (XRF) Lead Paint Spectrum Analyzer, Serial #3317, which is approved by the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) to determine the concentration of lead in paint.

The RMD LPA-1 XRF Lead Paint Spectrum Analyzer was calibrated according to the manufacturer's Performance Characteristic Sheet (PCS). The XRF was calibrated using the calibration standard block of known 1.0 mg/cm² lead content as well as a standard block of known 0.0 mg/cm² lead content. Three (3) calibration reading of each block were taken before the inspection began as well as after the inspection was completed.

6.0 Inspection & Testing Procedures

The LBP inspection and XRF testing were conducted by a State of Colorado accredited LBP Inspector qualified by experience, education, and training in approved LBP testing techniques. These procedures call for the visual inspection of the areas of concern and the collection of XRF readings for lead concentrations.

This inspection was performed in accordance with the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) guidelines for lead-hazard inspections, as well as the State of Colorado Air Quality Control Commission Regulation No. 19 for the Control of Lead Hazards. The EPA's 40 CFR Part 745 Final Rule (January 5, 2001) set standards for the identification of dangerous levels of lead. The standards identify when lead-based paint, lead-contaminated dust, and lead-contaminated soil are hazards. It also establishes residential dust clean-up levels (post-abatement clearance levels) and set dust and soil sampling requirements. The lead-based paint readings were collected by XRF analyzation for the purpose of determining lead concentrations as mg/cm².

7.0 Overview of Findings

The tan painted exterior walls were tested for LBP. The one type of paint was found to be negative for LBP.

8.0 Conclusion & Recommendations

Since no LBP was found on the tested components, no further "lead safe" work practices are required when disturbing, removing or impacting the tested components. Additional testing is required if new materials are discovered or the scope of work changes.

9.0 Disclaimer & Limitations

This full inspection does not constitute a full lead-hazard assessment of the building.

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Asbestos Inspection and Sampling Report

14451 Riverdale Rd, Brighton, Colorado

Building G

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Dave Sinkbeil DS Environmental Consulting 12477 W Cedar Dr, Ste 101 Lakewood, CO 80228 (720) 201-6611

Project Details:

Project Number: 15140-G

Conducted: September 21, 2016



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PROJECT OVERVIEW

1.0 Introduction

On September 21, 2016, Mr. Dave Sinkbeil with DS Environmental Consulting (DS) conducted a full-building asbestos inspection and collected asbestos bulk-samples of suspect asbestos-containing materials (ACM) within the entire commercial building located at 14451 Riverdale Rd, Bldg. G, Brighton, Colorado.

The purpose of the full-building inspection was to identify and sample potentially hazardous friable and non-friable ACM that may be impacted by demolition activities. The following are the suspect asbestoscontaining materials that were collected and their respective asbestos content:

The following materials do not contain asbestos:

Black and white roof shingles

2.0 Scope of Work

The scope of the full-building inspection and bulk-sampling encompassed the entire commercial building. Any other out-building or detached garage on the property was not included in the scope of the inspection. The full-building asbestos inspection conducted on September 21, 2016 constituted a full building inspection and fulfills the asbestos inspection requirements for structures that are to be demolished.

3.0 Site Description

The structure is a one-story, 12'x 12', wood constructed commercial building.

4.0 Certifications

The asbestos inspection and bulk-sampling was conducted by Mr. Dave Sinkbeil with DS. DS is a Colorado Department of Public Health and Environment (CDPHE) certified Asbestos Consulting Firm, Registration No. 14912. Mr. Sinkbeil is a CDPHE certified Building Inspector; having certification number 13015 (see Appendix A for certificates).

5.0 Inspection, Sampling & Analytical Procedures

5.1 Inspection Procedures

The full asbestos inspection was conducted by an Environmental Protection Agency (EPA) and CDPHE certified Building Inspector. The inspection procedures included identifying and sampling suspect ACM throughout the building, submitting samples to an accredited laboratory for analysis, classifying the materials and assessing their condition, and compiling a final report detailing the inspection and the analytical results of the bulk-samples.

5.2 Sampling Procedures

Statistically random bulk-samples representative of the suspect ACM of each homogeneous area were collected according to the guidelines published as EPA Final Rule: Title II of the Toxic Substances Control Act (TSCA), 15 USC, Sections 2641 through 2654 and in compliance with 40 CFR, Part 763 and CDPHE Regulation Number 8, Part B - Asbestos (Reg. 8).

DS has collected the appropriate number of bulk-samples to meet all regulatory requirements for the classification and quantity of each homogeneous area. Destructive sampling was conducted in order to locate and quantify suspect ACM from throughout the building.

5.3 Analytical Procedures

All asbestos bulk-samples were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory via Polarized Light Microscopy (PLM) for asbestos content (see Appendix B for laboratory report).

The percentage of asbestos within each individual bulk-sample can vary depending on sample location, homogeneity of the material, and the type of application. Any sample reporting a "TRACE" amount of asbestos must be considered positive for asbestos greater than 1% unless it is re-analyzed utilizing the point-count method and verified to be less than 1%.

Materials containing less than 1% asbestos are not regulated by CDPHE Regulation 8, Part B – Asbestos. However, all demolition/abatement activities should be performed following the applicable Occupational Safety and Health Administration (OSHA) regulations. This would include, but not limited to, the appropriate asbestos training for the type of material being removed/disturbed as well as having a properly trained supervisor onsite, using wet removal methods, wearing adequate personal protective equipment (HEPA-filtered particulate respirators), medical surveillance of workers, personal-exposure air monitoring, area air monitoring in occupied buildings, etc. There may also be landfill disposal requirements for these materials, depending on the facility. DS recommends that all demolition/renovation areas involving any amount of asbestos be subjected to visual inspections and a final clearance air testing by a CDPHE-certified Air Monitoring Specialist (AMS) after the work has been completed, but before any containments are dismantled and the area is reoccupied.

6.0 Homogeneous Areas

A *Homogeneous Area (HA)* includes materials that are uniform in appearance, color, texture and date of application. The asbestos content of the bulk-samples collected within a homogeneous area can be applied to the entire homogeneous area if they conform to the above characteristics and the regulated minimum sample quantities of each type of material are collected and analyzed.

6.1 Material Friability

A material can either be *friable* or *non-friable*. A friable material is one that, when dry, can be pulverized, or reduced to powder by hand pressure, a non-friable material cannot. A non-friable material may become friable if its condition had deteriorated or has been impacted by forces that have rendered it friable.

6.2 Material Classifications

Sampled materials are divided into one of the following three categories:

- *Surfacing Material*: sprayed or troweled onto structural building members
- *Thermal System Insulation (TSI)*: any type of pipe, boiler, tank, or duct insulation
- *Miscellaneous Material*: all other materials not classified in the above two categories

6.3 Material Conditions

Sampled materials are placed into one of the three following categories of conditions:

- *Good*: none to very little visible damage or deterioration
- Damaged: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded
 over less than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the
 damage is localized
- Significantly Damaged: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over greater than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the damage is localized

6.4 Sample Quantities

DS collected at least the minimum number of samples from each homogeneous area necessary to meet all regulatory requirements for the quantity of material to be disturbed. The quantities listed in this report are approximate and on-site verification of the exact quantity of each material is required. The following outlines the minimum sample quantities required per homogeneous area:

- Surfacing Materials: up to 1,000 ft² of material requires a minimum of three (3) samples; between 1,000 ft² and 5,000 ft² of material requires a minimum of five (5) samples; over 5,000 ft² of material requires a minimum of seven (7) samples; one (1) sample of each patch
- Thermal System Insulation (TSI): each homogeneous area requires a minimum of three (3) samples; at least one (1) sample must be collected from each patch; and collect enough samples sufficient to adequately assess the material and determine the asbestos content for TSI fittings such as pipe elbows or T's.
- *Miscellaneous Materials*: collect enough samples sufficient to determine the asbestos content

7.0 Overview of Findings

DS collected a total of two (2) asbestos bulk-samples of one (1) homogeneous area. The following are the suspect asbestos-containing materials that were collected and their respective asbestos content:

The following materials do not contain asbestos:

• Black/white roof shingles

Table 1 below describes the materials composing each homogeneous area as well as the locations of each bulk-sample collected. Also listed is the classification, condition, friability and estimated quantity of material to be removed and/or disturbed, as well as the asbestos content within each bulk-sample. Please see *Appendix B: Analytical Data* for the layer break-down of each bulk-sample.

TABLE 1

<i>HA</i> #	Sample ID	Sample Location	Material Description	Material Classification	Material Condition	Estimated Quantity	Material Friability	Asbestos Content
1	SHIN1-1	Roof, South Corner	Tan Roof Shingle with Black	ММ	G	~144 ft²	Friable	All ND
1	SHIN1-2	Roof, North Corner	Tar Adhesive				Friable	All ND

HA - Homogeneous Area	G - Good	CHRY - Chrysotile	SM - Surfacing Material
ND - None-detected	D - Damaged	ACT - Actinolite	MM - Miscellaneous Material
TR - Trace, <1% Visual Estimate	SD - Significantly Damaged		TSI - Thermal System Insulation

8.0 Conclusion & Recommendations

Asbestos was not identified within the materials of the commercial building that were within the scope of the full building inspection and bulk-sampling performed on September 21, 2016; therefore, no professional abatement activities are required to remove or disturb the above-referenced sampled materials.

9.0 Asbestos Abatement & Demolition Requirements

If ACM is to be removed or disturbed in a single-family residence, and the total quantity exceeds any of the regulatory trigger levels of 50 linear ft. on pipes, 32 ft² on other surfaces, or the volume equivalent of a 55-gallon drum, a CDPHE-certified General Abatement Contractor (GAC) is required to perform the work. The regulatory trigger levels within a commercial building are 260 linear ft. on pipes, 160 ft² on other surfaces, or the volume equivalent of a 55-gallon drum. In addition, formal notification to CDPHE prior to the abatement of ACM as well as air monitoring, visual inspections, and final air clearances by a CDPHE-certified Asbestos AMS is required. DS can provide the client or building owner with a proposal for project design, abatement oversight and air monitoring upon request.

CDPHE regulations allow for the demolition of a building that contains non-friable asbestos-containing materials, such as caulking, mastic or resilient floor tiles. However, demolition must be completed without causing the non-friable ACM to be rendered friable. Burning a building with any ACM is prohibited. Operations such as sanding, cutting, crushing, grinding, pneumatic jacking, etc. of ACM are not permitted. Recycling of building materials such as concrete, metal, or wood that are bonded or contaminated with ACM, e.g. glue, caulking, or mastic is also prohibited. If any of the non-friable asbestos containing materials are to be recycled and rendered friable after demolition (i.e. crushing mastic-coated concrete), these materials must be abated of all ACM prior to shipping offsite for recycling.

OSHA regulations regarding occupational exposure during demolition activities is still mandatory. OSHA 29 CFR 1926.1101 requires that workers performing construction-related activities be protected from asbestos fibers in excess of the permissible exposure limit of 0.1 f/cc of air. Contractors are must comply with applicable provisions of OSHA 29 CFR 1926.1101 during demolition and renovation activities. These OSHA provisions include, but are not limited to, PPE and respirators, personnel training, personal-exposure air monitoring, employee medical surveillance, wet removal methods, signage for regulated areas, etc.

10.0 Major & Minor Asbestos Spill Response Actions

If ACM is significantly damaged and the total quantity exceeds the regulatory trigger levels, the area is deemed a "Major Asbestos Spill." The area is consequently subject to the requirements in Reg. 8, Section III.T.1. – *Major Asbestos Spills*, as outlined below. Additional asbestos air or dust sampling should also be conducted within the remaining areas not directly impacted by the Major Asbestos Spill to determine if asbestos-containing dust/debris has spread to adjacent areas. If asbestos fibers are found within any other areas or on building contents, they should be included in the scope of professional abatement and decontamination. The following response actions must be followed per Colorado Reg. 8 when a Major Asbestos Spill occurs:

• Restrict access to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.

- Shut off or temporarily modify the air handling system to prevent the distribution of asbestos fibers to other areas.
- Immediately contact the Division by telephone, submit a notification in compliance with subsection III.E. (Notifications) and, if in an area of public access, apply for a permit in accordance with subsection III.G. (Permits).
- Be exempted from the requirements to have a certified Supervisor on-site at all times, until such time as the immediate danger has passed. Any cleanup or asbestos abatement that must occur after the immediate danger has passed shall be supervised by a person certified by the Division.
- Using certified Supervisors and certified Workers in accordance with section II. (Certification Requirements) of this Regulation, seal all openings between the contaminated and uncontaminated areas and establish none-detected air pressure within the contaminated area in accordance with paragraph III.J. (Air Cleaning and None-detected Pressure Requirements). This is to be accomplished using polyethylene sheeting to cover areas such as doorways, windows, elevator openings, corridor entrances, grills, drains, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, drapes, upholstery, and other non-clothing fabrics in the contaminated area, or discard these materials.
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all surfaces in the contaminated area.
- Discard all materials in accordance with subsection III.R. (Waste Handling).
- Following completion of subparagraph III.T.1.a. through III.T.1.i. above, comply with air monitoring requirements as described in subsection III.P. (Clearing Abatement Projects); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the area and
- Comply with any other measures deemed necessary by the Division to protect public health.

In the event of an asbestos spill involving less than or equal to the trigger levels, the building owner or contractor should take the following non-mandatory steps:

- Restrict entry to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.
- Shut off or temporarily modify the air handling system to prevent the distribution of fibers to other areas in the building.
- Seal all openings between the contaminated and uncontaminated areas. This is to be accomplished by using polyethylene sheeting to cover all areas such as windows, doorways, elevator openings, corridor entrances, drains, grills, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, draperies, upholstery and other non-clothing fabrics in the contaminated area, or discard all contaminated materials in accordance with subsection III.R. (Waste Handling).
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all non-fabric surfaces in the contaminated area.
- Following completion of subparagraphs III.T.2.a. through III.T.2.f. of Regulation 8, conduct air monitoring as described in paragraph III.P.3 of Regulation 8. (Final Clearance Air Monitoring and Sample Analyses); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the work area.

11.0 Project Design & Project Manager Requirements

DS can provide an Asbestos Project Design as well as fulfill the Colorado Asbestos Project Manager requirements for any asbestos abatement project, as applicable below.

Project Design

An abatement *Project Design* is an accurate and detailed scope of work, which includes project specifications and procedures, containment design/equipment placement, and descriptions of engineering controls and work practices for an asbestos abatement project or response action that is required by CDPHE Regulation Number 8, Part B - Asbestos (Reg. 8) on large asbestos abatement projects. Prior to the start of any asbestos abatement project in a non-school building, where the amount of asbestos-containing material (ACM) to be removed or disturbed exceeds 1,000 linear feet on pipes, or 3,000 square feet on surfaces, or in a school building in which the amount of friable ACM to be abated exceeds 3 linear feet on pipes, or 3 square feet on surfaces, a written Project Design must be developed by a State of Colorado certified Project Designer in accordance with subsection IV.G.7 of Regulation 8. A signed copy shall be posted on-site prior to commencing any abatement activities, shall be available on-site at all times, and shall remain onsite until final air clearances have been completed by a State of Colorado-certified Air Monitoring Specialist (AMS).

Project Manager

A *Project Manager* shall be used on all asbestos abatement projects in which the amount of friable asbestos-containing material to be abated exceeds 1,000 linear feet on pipes, or 3,000 square feet on other surfaces per CDPHE Regulation Number 8, Part B – Section III.B.6. An asbestos Project Manager on an abatement project shall be responsible for assessing that the project is conducted in accordance with Regulation 8, assessing that the Project Design is followed, assessing that the abatement project is cleared in accordance with Regulation 8, assessing that the asbestos waste generated on the project is properly manifested and disposed of in accordance with Regulation 8, and communicating these assessments to the building owner or GAC. Project Managers must have proof of Colorado certification as an asbestos Project Designer and Air Monitoring Specialist in accordance with Section II of CDPHE Regulation 8 as well as a minimum of one (1) year of experience supervising, overseeing or monitoring asbestos abatement projects. A 4-year college degree in industrial hygiene, a degree in environmental health with a major concentration in industrial hygiene, or the possession of a certified industrial hygienist (CIH) certificate given by the American Board of Industrial Hygiene (ABIH) may be substituted for the Colorado asbestos Air Monitoring Specialist course.

The GAC shall notify the building owner during bid proposals as to whether or not a project manager is required. Project managers shall be independent of the asbestos abatement contractor and work strictly on behalf of the building owner to the extent feasible, unless the abatement is being performed in-house. Project managers must sign the original copy of the abatement permit for the permit to be valid.

12.0 Disclaimer & Limitations

The activities outlined in this report were conducted in a manner consistent with a level of care and expertise exercised by members of the environmental consulting and industrial hygiene profession. All activities were performed in accordance with all applicable federal, state, and local regulations as well as generally accepted standards and professional practice. No warranty is either expressed or implied. DS assumes no responsibility or liability for error in public information utilized, statements from sources other than DS, or developments resulting from situations outside the scope of this project.

The details provided within this report outline the inspection activities on the date(s) indicated and should not be relied upon to represent conditions at a later date, the limited number of bulk-samples collected, and the laboratory results of those bulk-samples. The laboratory results contained in this report apply specifically to the materials in which bulk-samples were collected. The results do not include or apply to any other materials within the structure that were not sampled, but may contain asbestos; including materials that may be hidden or inaccessible. Additional inspection and bulk-sampling activities would be required to determine if any other materials contain asbestos.

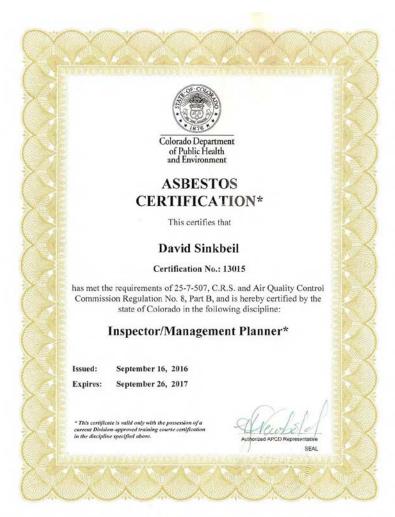
This report has been prepared on behalf of and exclusively for use by the Client, with specific application to their project as discussed in the scope of work. The results of any surfacing material indicated in this report also includes any associated overspray of that material, e.g., under carpet, above suspended ceilings, etc. The information contained in this report is intended as supplementary material for abatement design and is not to be used as the scope of work for abatement activities, bidding or billing purposes. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. DS can provide a full scope of work for abatement upon request. DS does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report.

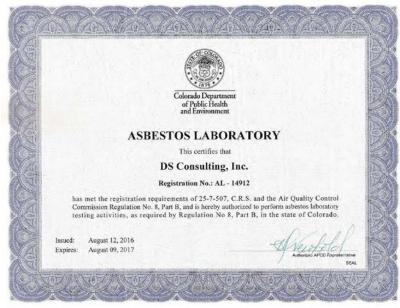
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APPENDIX A

INSPECTOR & FIRM ASBESTOS CERTIFICATES





APPENDIX B ANALYTICAL DATA



September 24, 2016 Subcontract Number: NA

Laboratory Report: RES 361401-1

Project # / P.O. # 14331 Riverdale Rd, Bldg. "G"

Project Description: Brighton

DS Environmental Consulting 12477 W. Cedar Dr., Suite 101 Lakewood CO 80228

Dear Customer,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 361401-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

Jeanne Spencer

Emily A. asey

President

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 361401-1

Client: DS Environmental Consulting
Client Project Number / P.O.: 14331 Riverdale Rd, Bldg. "G"

Client Project Description: Brighton

Date Samples Received: September 21, 2016

Method: EPA 600/R-93/116 - Short Report, Bulk

Turnaround: 3-5 Day

Date Samples Analyzed: September 24, 2016

ND=None Detected
TR=Trace, <1% Visual Estimate
Trem/Act=Tremolite/Actinolite

Client	Lab	L		Asbestos Content	Non	
Sample	ID Number	A Physical	Sub	_	Asbestos	
Number		Filysical	Part	Mineral Visual		Components
		E Description	(0/)		Components	(0/)
		R	(%)	(%)	(%)	(%)
SHIN 1-1	EM 1711860	A Black/white shingle	100	ND	15	85
SHIN 1-2	EM 1711861	A Black/white shingle	100	ND	15	85

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.

Brett S. Colbert

Analyst / Data QA

Due Date 5 . 2 C - 29 3:36 Due Time:

RESELVOITS Environmental, Inc. 5801 Logan St. Denver, CO 80218 - Ph. 303 964-1986 - Fax 303-477-4275 - Toll Free 866 RESI-ENV

Pager: 303-509-2098 INVOICE TO: (IF DIFFERENT)

CONTACT INFORMATION:

RES 361401

Company	Company						-					
DS Consulting, Inc.	Company		Contact		Dave Sinkheil	inkheil			Contact			
Address: 12477 W Cedar Dr., Suite 101	Address		Phone	77	720-201-6611	6611			Phone			
Lakewood, CO 80228			Fax.						Fax.			
			Cell/pager	ager:					Cellpager			
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NOTE: REI will analyze incoming samples based upon information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall constitute an analytical services agreement with payment terms of NET 30 days, failure to comply with payment terms may result in a 1.5% monthly interest surchainse. (Additional samples shall be listed on attached long form.) Number of samples received:

3

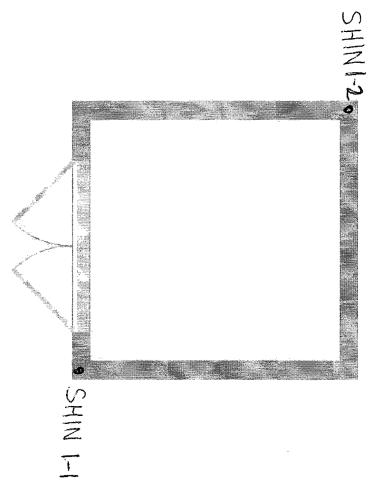
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Date/Time: Carrie	Date/Time S-21:16 3:3 Carrier Phone Email Fax Date Time Initials Contact Phone Email Fax
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APPENDIX C SAMPLE LOCATIONS



NOT-TO-SCALE BLDG. "G"



Lead-Based Paint Inspection and XRF Testing Report

14451 Riverdale Rd, Brighton, Colorado 80602

Building G

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Robert Neumann DS Environmental Consulting, Inc. 12477 W Cedar Dr, Ste 101 Lakewood, CO 80228 (720) 369 – 6609

Project Details:

Project Number: 15140-G

Conducted: September 21, 2016



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8.0	Conclusion & Recommendations
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APPENDIX A

Inspector & Firm Lead Certificates

PROJECT OVERVIEW

1.0 Introduction

On September 21, 2016, Mr. Robert Neumann with DS Environmental Consulting, Inc. (DS) performed a full lead-based paint (LBP) inspection and performed XRF testing to determine the presence of LBP on painted building components of the commercial building located at 14451 Riverdale Rd, Bldg. G, Brighton, Colorado 80602.

The term "paint" means any liquid mixture, usually of solid pigment in a liquid vehicle, used as a decorative or protective coating. This includes, but is not limited to, primer, lacquer, polyurethane, wood stain, etc. The term "lead-based paint" means any paint having concentrations of lead greater than 1.0 mg/cm², which is also Colorado's action level.

The tan painted exterior walls were tested for LBP. The one type of paint was found to be negative for LBP.

2.0 Scope of Work

The scope of the full LBP inspection included all areas of the building defined by the environmental consulting company as listed above. No garage or any out-building on the property were included in the scope of the inspection. The full LBP inspection did not constitute a hazard assessment.

3.0 Site Description

The structure is a wood framed, single-level commercial building.

4.0 Certifications

Mr. Neumann and is a Colorado State Certified LBP Inspector; having EPA Accreditation #23292. DS Environmental Consulting, Inc. is a Colorado State Certified Lead Evaluation Firm, license #16918. Mr. Neumann is certified to operate the RMD LPA-1 XRF Lead Paint Spectrum Analyzer by the manufacturer (see Appendix A for certificates).

5.0 Equipment Information

LBP concentrations were obtained using a RMD Model LPA-1 X-ray Florescence (XRF) Lead Paint Spectrum Analyzer, Serial #3317, which is approved by the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) to determine the concentration of lead in paint.

The RMD LPA-1 XRF Lead Paint Spectrum Analyzer was calibrated according to the manufacturer's Performance Characteristic Sheet (PCS). The XRF was calibrated using the calibration standard block of known 1.0 mg/cm² lead content as well as a standard block of known 0.0 mg/cm² lead content. Three (3) calibration reading of each block were taken before the inspection began as well as after the inspection was completed.

6.0 Inspection & Testing Procedures

The LBP inspection and XRF testing were conducted by a State of Colorado accredited LBP Inspector qualified by experience, education, and training in approved LBP testing techniques. These procedures call for the visual inspection of the areas of concern and the collection of XRF readings for lead concentrations.

This inspection was performed in accordance with the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) guidelines for lead-hazard inspections, as well as the State of Colorado Air Quality Control Commission Regulation No. 19 for the Control of Lead Hazards. The EPA's 40 CFR Part 745 Final Rule (January 5, 2001) set standards for the identification of dangerous levels of lead. The standards identify when lead-based paint, lead-contaminated dust, and lead-contaminated soil are hazards. It also establishes residential dust clean-up levels (post-abatement clearance levels) and set dust and soil sampling requirements. The lead-based paint readings were collected by XRF analyzation for the purpose of determining lead concentrations as mg/cm².

7.0 Overview of Findings

The tan painted exterior walls were tested for LBP. The one type of paint was found to be negative for LBP.

8.0 Conclusion & Recommendations

Since no LBP was found on the tested components, no further "lead safe" work practices are required when disturbing, removing or impacting the tested components. Additional testing is required if new materials are discovered or the scope of work changes.

9.0 Disclaimer & Limitations

This full inspection does not constitute a full lead-hazard assessment of the building.

10.0 Copyright Notice

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Asbestos Inspection and Sampling Report

14451 Riverdale Rd, Brighton, Colorado

Building H

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Dave Sinkbeil DS Environmental Consulting 12477 W Cedar Dr, Ste 101 Lakewood, CO 80228 (720) 201-6611

Project Details:

Project Number: 15140-H

Conducted: September 21, 2016



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PROJECT OVERVIEW

1.0 Introduction

On September 21, 2016, Mr. Dave Sinkbeil with DS Environmental Consulting (DS) conducted a full-building asbestos inspection and collected asbestos bulk-samples of suspect asbestos-containing materials (ACM) within the entire commercial building located at 14451 Riverdale Rd, Bldg. H, Brighton, Colorado.

The purpose of the full-building inspection was to identify and sample potentially hazardous friable and non-friable ACM that may be impacted by demolition activities. The following are the suspect asbestoscontaining materials that were collected and their respective asbestos content:

The following materials do not contain asbestos:

- Painted, light textured drywall
- White joint compound associated with the painted, light textured drywall referenced above
- Tan 12"x 12" vinyl floor tile with black mastic
- Gray 12"x 12" vinyl floor tile with black mastic
- Black vinyl cove base with yellow mastic
- Tan vinyl cove base with yellow mastic

2.0 Scope of Work

The scope of the full-building inspection and bulk-sampling encompassed the entire commercial building referenced above. Any other out-building or detached garage on the property was not included in the scope of the inspection. The full-building asbestos inspection conducted on September 21, 2016 constituted a full building inspection and fulfills the asbestos inspection requirements for structures that are to be demolished.

3.0 Site Description

The structure is a two-story, wood framed commercial building.

4.0 Certifications

The asbestos inspection and bulk-sampling was conducted by Mr. Dave Sinkbeil with DS. DS is a Colorado Department of Public Health and Environment (CDPHE) certified Asbestos Consulting Firm, Registration No. 14912. Mr. Sinkbeil is a CDPHE certified Building Inspector; having certification number 13015 (see Appendix A for certificates).

5.0 Inspection, Sampling & Analytical Procedures

5.1 Inspection Procedures

The full asbestos inspection was conducted by an Environmental Protection Agency (EPA) and CDPHE certified Building Inspector. The inspection procedures included identifying and sampling suspect ACM throughout the building, submitting samples to an accredited laboratory for analysis, classifying the

materials and assessing their condition, and compiling a final report detailing the inspection and the analytical results of the bulk-samples.

5.2 Sampling Procedures

Statistically random bulk-samples representative of the suspect ACM of each homogeneous area were collected according to the guidelines published as EPA Final Rule: Title II of the Toxic Substances Control Act (TSCA), 15 USC, Sections 2641 through 2654 and in compliance with 40 CFR, Part 763 and CDPHE Regulation Number 8, Part B - Asbestos (Reg. 8).

DS has collected the appropriate number of bulk-samples to meet all regulatory requirements for the classification and quantity of each homogeneous area. Destructive sampling was conducted in order to locate and quantify suspect ACM from throughout the building.

5.3 Analytical Procedures

All asbestos bulk-samples were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory via Polarized Light Microscopy (PLM) for asbestos content (see Appendix B for laboratory report).

The percentage of asbestos within each individual bulk-sample can vary depending on sample location, homogeneity of the material, and the type of application. Any sample reporting a "TRACE" amount of asbestos must be considered positive for asbestos greater than 1% unless it is re-analyzed utilizing the point-count method and verified to be less than 1%.

Materials containing less than 1% asbestos are not regulated by CDPHE Regulation 8, Part B – Asbestos. However, all demolition/abatement activities should be performed following the applicable Occupational Safety and Health Administration (OSHA) regulations. This would include, but not limited to, the appropriate asbestos training for the type of material being removed/disturbed as well as having a properly trained supervisor onsite, using wet removal methods, wearing adequate personal protective equipment (HEPA-filtered particulate respirators), medical surveillance of workers, personal-exposure air monitoring, area air monitoring in occupied buildings, etc. There may also be landfill disposal requirements for these materials, depending on the facility. DS recommends that all demolition/renovation areas involving any amount of asbestos be subjected to visual inspections and a final clearance air testing by a CDPHE-certified Air Monitoring Specialist (AMS) after the work has been completed, but before any containments are dismantled and the area is reoccupied.

6.0 Homogeneous Areas

A *Homogeneous Area (HA)* includes materials that are uniform in appearance, color, texture and date of application. The asbestos content of the bulk-samples collected within a homogeneous area can be applied to the entire homogeneous area if they conform to the above characteristics and the regulated minimum sample quantities of each type of material are collected and analyzed.

6.1 Material Friability

A material can either be *friable* or *non-friable*. A friable material is one that, when dry, can be pulverized, or reduced to powder by hand pressure, a non-friable material cannot. A non-friable material may become friable if its condition had deteriorated or has been impacted by forces that have rendered it friable.

6.2 Material Classifications

Sampled materials are divided into one of the following three categories:

- Surfacing Material: sprayed or troweled onto structural building members
- Thermal System Insulation (TSI): any type of pipe, boiler, tank, or duct insulation
- *Miscellaneous Material*: all other materials not classified in the above two categories

6.3 Material Conditions

Sampled materials are placed into one of the three following categories of conditions:

- *Good*: none to very little visible damage or deterioration
- *Damaged*: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over less than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the damage is localized
- Significantly Damaged: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over greater than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the damage is localized

6.4 Sample Quantities

DS collected at least the minimum number of samples from each homogeneous area necessary to meet all regulatory requirements for the quantity of material to be disturbed. The quantities listed in this report are approximate and on-site verification of the exact quantity of each material is required. The following outlines the minimum sample quantities required per homogeneous area:

- *Surfacing Materials*: up to 1,000 ft² of material requires a minimum of three (3) samples; between 1,000 ft² and 5,000 ft² of material requires a minimum of five (5) samples; over 5,000 ft² of material requires a minimum of seven (7) samples; one (1) sample of each patch
- Thermal System Insulation (TSI): each homogeneous area requires a minimum of three (3) samples; at least one (1) sample must be collected from each patch; and collect enough samples sufficient to adequately assess the material and determine the asbestos content for TSI fittings such as pipe elbows or T's.
- *Miscellaneous Materials*: collect enough samples sufficient to determine the asbestos content

7.0 Overview of Findings

DS collected a total of fourteen (14) asbestos bulk-samples of six (6) homogeneous areas. The following are the suspect asbestos-containing materials that were collected and their respective asbestos content:

The following materials do not contain asbestos:

- Painted, light textured drywall
- White joint compound associated with the painted, light textured drywall referenced above
- Tan 12"x 12" vinyl floor tile with black mastic
- Gray 12"x 12" vinyl floor tile with black mastic
- Black vinyl cove base with yellow mastic
- Tan vinyl cove base with yellow mastic

Table 1 below describes the materials composing each homogeneous area as well as the locations of each bulk-sample collected. Also listed is the classification, condition, friability and estimated quantity of material to be removed and/or disturbed, as well as the asbestos content within each bulk-sample. Please see *Appendix B: Analytical Data* for the layer break-down of each bulk-sample.

TABLE 1

<i>HA</i> #	Sample ID	Sample Location	Material Description	Material Classification	Material Condition	Estimated Quantity	Material Friability	Asbestos Content
	SM1-1	North Room, West Wall						
	SM1-2	Main Room, South Wall						
1	SM1-3	North Room, Northeast Corner	Painted, light textured drywall w/joint compound	SM	G	~1500 ft ²	Friable	ND
	SM1-4	Main Room, Southeast Corner						
	SM1-5	Main Room, Ceiling West Side						
2	JC1-1	North Room, Northeast Corner	Painted, light textured drywall w/joint compound	MM	G	~1500 ft ²	Friable	ND
3	FT1-1	Main Room, Center of Room	Tan 12"x 12" Vinyl Floor Tile	NANA	C	~400 ft ²	Non-friable	ND
	FT1-2	Main Room, Center of Room	with Black Mastic	MM	G	~400 IT ²		ND
4	FT2-1	North Room, Lower Level	Gray 12"x 12" Vinyl Floor Tile	MM	C	~300 ft ²	Non-friable	ND
4	FT2-1	North Room, Upper Level	with Black Mastic		G	30010		ND
5	CB1-1	North Room, East Wall	Black Vinyl Cove Base with	MM	G	~60 lf	Non-friable	ND
3	CB1-2	North Room, West Wall	Yellow Mastic	INIINI	ď	~00 II	Non-mable	ND
6	CB2-1	Main Room, North Wall	Tan Vinyl Cove Base with	ММ	G	~70 lf	Non-friable	ND
U	CB2-2	Main Room, South Wall	Yellow Mastic					מאו

HA - Homogeneous Area

ND - None-detected

TR - Trace, <1% Visual Estimate

G - Good

D - Damaged

SD - Significantly Damaged

CHRY - Chrysotile

ACT - Actinolite

SM - Surfacing Material

MM - Miscellaneous Material

TSI - Thermal System Insulation

8.0 Conclusion & Recommendations

Asbestos was not identified within the materials of the commercial building that were within the scope of the full building inspection and bulk-sampling performed on September 21, 2016; therefore, no professional abatement activities are required to remove or disturb the above-referenced sampled materials.

9.0 Asbestos Abatement & Demolition Requirements

If ACM is to be removed or disturbed in a single-family residence, and the total quantity exceeds any of the regulatory trigger levels of 50 linear ft. on pipes, 32 ft² on other surfaces, or the volume equivalent of a 55-gallon drum, a CDPHE-certified General Abatement Contractor (GAC) is required to perform the work. The regulatory trigger levels within a commercial building are 260 linear ft. on pipes, 160 ft² on other surfaces, or the volume equivalent of a 55-gallon drum. In addition, formal notification to CDPHE prior to the abatement of ACM as well as air monitoring, visual inspections, and final air clearances by a CDPHE-certified Asbestos AMS is required. DS can provide the client or building owner with a proposal for project design, abatement oversight and air monitoring upon request.

CDPHE regulations allow for the demolition of a building that contains non-friable asbestos-containing materials, such as caulking, mastic or resilient floor tiles. However, demolition must be completed without causing the non-friable ACM to be rendered friable. Burning a building with any ACM is prohibited. Operations such as sanding, cutting, crushing, grinding, pneumatic jacking, etc. of ACM are not permitted. Recycling of building materials such as concrete, metal, or wood that are bonded or contaminated with ACM, e.g. glue, caulking, or mastic is also prohibited. If any of the non-friable asbestos containing materials are to be recycled and rendered friable after demolition (i.e. crushing mastic-coated concrete), these materials must be abated of all ACM prior to shipping offsite for recycling.

OSHA regulations regarding occupational exposure during demolition activities is still mandatory. OSHA 29 CFR 1926.1101 requires that workers performing construction-related activities be protected from asbestos fibers in excess of the permissible exposure limit of 0.1 f/cc of air. Contractors are must comply with applicable provisions of OSHA 29 CFR 1926.1101 during demolition and renovation activities. These OSHA provisions include, but are not limited to, PPE and respirators, personnel training, personal-exposure air monitoring, employee medical surveillance, wet removal methods, signage for regulated areas, etc.

10.0 Major & Minor Asbestos Spill Response Actions

If ACM is significantly damaged and the total quantity exceeds the regulatory trigger levels, the area is deemed a "Major Asbestos Spill." The area is consequently subject to the requirements in Reg. 8, Section III.T.1. – *Major Asbestos Spills*, as outlined below. Additional asbestos air or dust sampling should also be conducted within the remaining areas not directly impacted by the Major Asbestos Spill to determine if asbestos-containing dust/debris has spread to adjacent areas. If asbestos fibers are found within any other areas or on building contents, they should be included in the scope of professional abatement and decontamination. The following response actions must be followed per Colorado Reg. 8 when a Major Asbestos Spill occurs:

• Restrict access to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.

- Shut off or temporarily modify the air handling system to prevent the distribution of asbestos fibers to other areas.
- Immediately contact the Division by telephone, submit a notification in compliance with subsection III.E. (Notifications) and, if in an area of public access, apply for a permit in accordance with subsection III.G. (Permits).
- Be exempted from the requirements to have a certified Supervisor on-site at all times, until such time as the immediate danger has passed. Any cleanup or asbestos abatement that must occur after the immediate danger has passed shall be supervised by a person certified by the Division.
- Using certified Supervisors and certified Workers in accordance with section II. (Certification Requirements) of this Regulation, seal all openings between the contaminated and uncontaminated areas and establish none-detected air pressure within the contaminated area in accordance with paragraph III.J. (Air Cleaning and None-detected Pressure Requirements). This is to be accomplished using polyethylene sheeting to cover areas such as doorways, windows, elevator openings, corridor entrances, grills, drains, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, drapes, upholstery, and other non-clothing fabrics in the contaminated area, or discard these materials.
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all surfaces in the contaminated area.
- Discard all materials in accordance with subsection III.R. (Waste Handling).
- Following completion of subparagraph III.T.1.a. through III.T.1.i. above, comply with air monitoring requirements as described in subsection III.P. (Clearing Abatement Projects); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the area and
- Comply with any other measures deemed necessary by the Division to protect public health.

In the event of an asbestos spill involving less than or equal to the trigger levels, the building owner or contractor should take the following non-mandatory steps:

- Restrict entry to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.
- Shut off or temporarily modify the air handling system to prevent the distribution of fibers to other areas in the building.
- Seal all openings between the contaminated and uncontaminated areas. This is to be accomplished by using polyethylene sheeting to cover all areas such as windows, doorways, elevator openings, corridor entrances, drains, grills, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, draperies, upholstery and other non-clothing fabrics in the contaminated area, or discard all contaminated materials in accordance with subsection III.R. (Waste Handling).
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all non-fabric surfaces in the contaminated area.
- Following completion of subparagraphs III.T.2.a. through III.T.2.f. of Regulation 8, conduct air monitoring as described in paragraph III.P.3 of Regulation 8. (Final Clearance Air Monitoring and Sample Analyses); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the work area.

11.0 Project Design & Project Manager Requirements

DS can provide an Asbestos Project Design as well as fulfill the Colorado Asbestos Project Manager requirements for any asbestos abatement project, as applicable below.

Project Design

An abatement *Project Design* is an accurate and detailed scope of work, which includes project specifications and procedures, containment design/equipment placement, and descriptions of engineering controls and work practices for an asbestos abatement project or response action that is required by CDPHE Regulation Number 8, Part B - Asbestos (Reg. 8) on large asbestos abatement projects. Prior to the start of any asbestos abatement project in a non-school building, where the amount of asbestos-containing material (ACM) to be removed or disturbed exceeds 1,000 linear feet on pipes, or 3,000 square feet on surfaces, or in a school building in which the amount of friable ACM to be abated exceeds 3 linear feet on pipes, or 3 square feet on surfaces, a written Project Design must be developed by a State of Colorado certified Project Designer in accordance with subsection IV.G.7 of Regulation 8. A signed copy shall be posted on-site prior to commencing any abatement activities, shall be available on-site at all times, and shall remain onsite until final air clearances have been completed by a State of Colorado-certified Air Monitoring Specialist (AMS).

Project Manager

A *Project Manager* shall be used on all asbestos abatement projects in which the amount of friable asbestos-containing material to be abated exceeds 1,000 linear feet on pipes, or 3,000 square feet on other surfaces per CDPHE Regulation Number 8, Part B – Section III.B.6. An asbestos Project Manager on an abatement project shall be responsible for assessing that the project is conducted in accordance with Regulation 8, assessing that the Project Design is followed, assessing that the abatement project is cleared in accordance with Regulation 8, assessing that the asbestos waste generated on the project is properly manifested and disposed of in accordance with Regulation 8, and communicating these assessments to the building owner or GAC. Project Managers must have proof of Colorado certification as an asbestos Project Designer and Air Monitoring Specialist in accordance with Section II of CDPHE Regulation 8 as well as a minimum of one (1) year of experience supervising, overseeing or monitoring asbestos abatement projects. A 4-year college degree in industrial hygiene, a degree in environmental health with a major concentration in industrial hygiene, or the possession of a certified industrial hygienist (CIH) certificate given by the American Board of Industrial Hygiene (ABIH) may be substituted for the Colorado asbestos Air Monitoring Specialist course.

The GAC shall notify the building owner during bid proposals as to whether or not a project manager is required. Project managers shall be independent of the asbestos abatement contractor and work strictly on behalf of the building owner to the extent feasible, unless the abatement is being performed in-house. Project managers must sign the original copy of the abatement permit for the permit to be valid.

12.0 Disclaimer & Limitations

The activities outlined in this report were conducted in a manner consistent with a level of care and expertise exercised by members of the environmental consulting and industrial hygiene profession. All activities were performed in accordance with all applicable federal, state, and local regulations as well as generally accepted standards and professional practice. No warranty is either expressed or implied. DS assumes no responsibility or liability for error in public information utilized, statements from sources other than DS, or developments resulting from situations outside the scope of this project.

The details provided within this report outline the inspection activities on the date(s) indicated and should not be relied upon to represent conditions at a later date, the limited number of bulk-samples collected, and the laboratory results of those bulk-samples. The laboratory results contained in this report apply specifically to the materials in which bulk-samples were collected. The results do not include or apply to any other materials within the structure that were not sampled, but may contain asbestos; including materials that may be hidden or inaccessible. Additional inspection and bulk-sampling activities would be required to determine if any other materials contain asbestos.

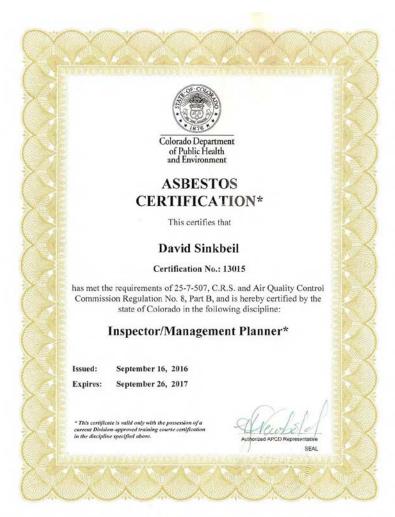
This report has been prepared on behalf of and exclusively for use by the Client, with specific application to their project as discussed in the scope of work. The results of any surfacing material indicated in this report also includes any associated overspray of that material, e.g., under carpet, above suspended ceilings, etc. The information contained in this report is intended as supplementary material for abatement design and is not to be used as the scope of work for abatement activities, bidding or billing purposes. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. DS can provide a full scope of work for abatement upon request. DS does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report.

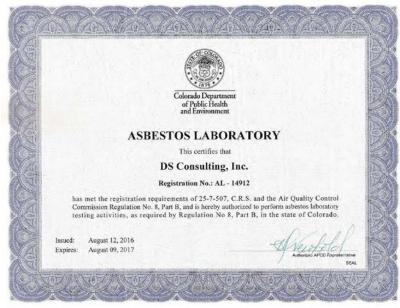
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APPENDIX A

INSPECTOR & FIRM ASBESTOS CERTIFICATES





APPENDIX B ANALYTICAL DATA



September 24, 2016 Subcontract Number: NA

Laboratory Report: RES 361406-1

Project # / P.O. # 14331 Riverdale Rd Bldg H

Project Description: Brighton

DS Environmental Consulting 12477 W. Cedar Dr., Suite 101 Lakewood CO 80228

Dear Customer,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 361406-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

Jeanne Spencer

Emily A. asey

President

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 361406-1

Client: DS Environmental Consulting
Client Project Number / P.O.: 14331 Riverdale Rd Bldg H

Client Project Description: Brighton

Date Samples Received: September 21, 2016

Method: EPA 600/R-93/116 - Short Report, Bulk

Turnaround: 3-5 Day

Date Samples Analyzed: September 24, 2016

ND=None Detected TR=Trace, <1% Visual Estimate Trem/Act=Tremolite/Actinolite

Client Sample Number	Lab ID Number	L A Physical	Sub	Asbestos Content Mineral Visual	Non Asbestos Fibrous	
Number		E Description	(%)	Estimate		-
SM 1-1	EM 1711890	A White paint	2	(%) ND		100
SW 1-1	LIW 17 11030	B White/tan drywall	98	ND ND		85
SM 1-2	EM 1711891	A White texture w/ white paint	ND		100	
		B White/tan drywall	90	ND		80
· · · · · · · · · · · · · · · · · · ·		A White texture w/ white paint	10	ND	0	100
		B White tape	10	ND		10
		C White joint compound	10	ND		100
		D White/tan drywall	70	ND	15	85
SM 1-4	SM 1-4 EM 1711893 A White texture w/ white paint		5	ND		100
		B White tape	5	ND		10
		C White joint compound	5	ND	0	100
		D White/tan drywall	85	ND	15	85
SM 1-5	EM 1711894	A White texture w/ white paint	5	ND	0	100
		B White/tan drywall	95	ND	15	85

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 361406-1

Client: DS Environmental Consulting
Client Project Number / P.O.: 14331 Riverdale Rd Bldg H

Client Project Description: Brighton

Date Samples Received: September 21, 2016

Method: EPA 600/R-93/116 - Short Report, Bulk

Turnaround: 3-5 Day

Date Samples Analyzed: September 24, 2016

ND=None Detected
TR=Trace, <1% Visual Estimate
Trem/Act=Tremolite/Actinolite

Client	Lab ID Number	L	Sub	Asbestos Content	Non Asbestos	Non- Fibrous
Sample Number	ID Number	A Y Physical		Mineral Visual		
		E Description		Estimate	Components	
		R	(%)	(%)	(%)	(%)
JC 1-1	EM 1711895	A White texture w/ white paint	5	ND	0	100
		B White tape	5	ND	90	10
		C White joint compound	5	ND	0	100
		D White/tan drywall	85	ND	15	85
FT 1-1	EM 1711896	A Yellow mastic	TR	ND	0	100
		B Gray tile	100	ND	0	100
FT 1-2	EM 1711897	A Yellow mastic	TR	ND	0	100
		B Gray tile	100	ND	0	100
FT 2-1	EM 1711898	A Yellow mastic w/ white debris	5	ND	0	100
		B Gray tile	95	ND	0	100
FT 2-2	EM 1711899	A Yellow mastic	Yellow mastic TR		0	100
		B Gray tile	100	ND	0	100
CB 1-1	EM 1711900	A Black cove base	100	ND	0	100

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.

NVLAP Lab Code 101896-0

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Date Samples Analyzed: September 24, 2016

ND=None Detected
TR=Trace, <1% Visual Estimate
Trem/Act=Tremolite/Actinolite

Client Sample Number	Lab ID Number	Y Physical P Description	Asbestos Mineral	Visual Estimate (%)	Components	Fibrous Components
CB 1-2	EM 1711901	A White compound w/ white paint 2 B Tan resinous material 2 C Black cove base 96		ND ND ND	0 0 0	100 100 100
CB 2-1	EM 1711902	A Tan mastic B Beige cove base	7	ND ND	0 0	100 100
CB 2-2	EM 1711903		5	ND ND	0 0	100 100

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.

\nalvet / Data OA

Analyst / Data QA

Due Date 7.26.29 3.46) Due Time

SECTION RESERVOITS Environmental, Inc. 5801 Logan St. Denver, CO 80216 - Ph. 303 964-1986 · Fax 303-477-4275 · Toll Free 866 RESI-ENV Pager: 303-509-2098

RES 361406

CONTACT INFORMATION.

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		Company	Level	Contact:	Dave Sinkbeil	Conlact		
Company DS Consulting Ing	ing lng	7777		Phone:	720-201-6611	Phone		
Address: 4 7 4 7 1 1 1	Codar Or Suite 101	Address		Fax		Fax		
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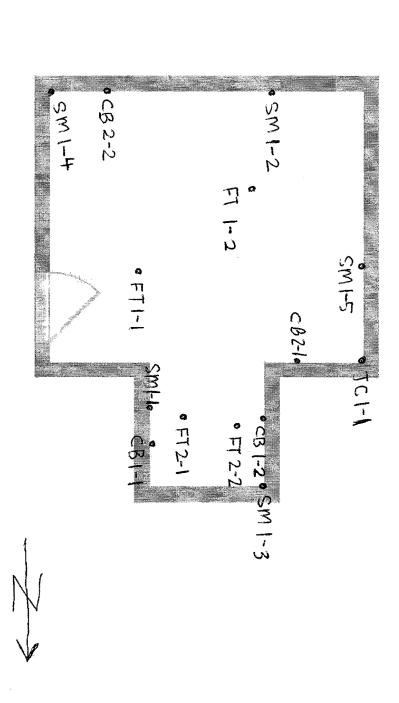
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607 000 3 (Laboratory Use Only) 0 **EM Number** LAB NOTES: 三方 1> Time Collected Drinking Water = DW Waste Water = WW **ASTM E1792 approved wipe media only** Wipe = W Bulk = B Paint = P F = Food VALID MATRIX CODES Collected Date O = Other # Containers Swab = SW Soil = S Dust = D Air = A Matrix Code L) / Area Sample Volume OTHER -Yeast: Mold: +/- or Quantification Saureus: +/- or Quantification Coliforms: +/- or Quantification E.coli: +/- or Quantification REQUESTED ANALYSIS Aerobic Plate Count: +/- or Quantification Listeria: +/-E coli 0157:H7: +/-Salmonella: +/-ORGANICS - BTEX, MTBE, 8260, GRO, METH RCRA 8, TCLP, Welding Fume, Metals Scan 1 noor of or METALS - Analyte(s) DUST - Total, Respirable CM - 7400A, 7400B, OSHA Serni-quant, Micro-vac, ISO-Indirect Preps TEM - AHERA, Level II, 7402, ISO, +/-, Quant. - Short report, Long report, Point Count WTd SBOI LOGAN St. Denver, CO 80216 - Ph. 303 964-1986 Fax 303-477-4275 - Toll Free -866 RESI-ENV N 5 Page (Sample ID's must be unique) Submitted by: DS CONSULTING RES Job # 36 1-10 6 Client sample ID number 1-2 7-1 B 1-1 37 40 36 39 29 32 33 25 26 27 27 28 31 23 19 20 21 22 18 15 16 17 12 13 14

APPENDIX C SAMPLE LOCATIONS



NOT-TO-SCALE
BLDG, "H"



Lead-Based Paint Inspection and XRF Testing Report

14451 Riverdale Rd, Brighton, Colorado 80602

Building H

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Robert Neumann DS Environmental Consulting, Inc. 12477 W Cedar Dr, Ste 101 Lakewood, CO 80228 (720) 369 - 6609

Project Details:

Project Number: 15140-H

Conducted: September 21, 2016



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APPENDIX A

Inspector & Firm Lead Certificates

1.0 Introduction

On September 21, 2016, Mr. Robert Neumann with DS Environmental Consulting, Inc. (DS) performed a full lead-based paint (LBP) inspection and performed XRF testing to determine the presence of LBP on painted building components of the commercial building located at 14451 Riverdale Rd, Bldg. H, Brighton, Colorado 80602.

The term "paint" means any liquid mixture, usually of solid pigment in a liquid vehicle, used as a decorative or protective coating. This includes, but is not limited to, primer, lacquer, polyurethane, wood stain, etc. The term "lead-based paint" means any paint having concentrations of lead greater than 1.0 mg/cm², which is also Colorado's action level.

The white painted drywall walls and ceilings and off-white painted exterior walls were tested for LBP. All types of paint were found to be negative for LBP.

2.0 Scope of Work

The scope of the full LBP inspection included all areas of the building defined by the environmental consulting company as listed above. No garage or any out-building on the property were included in the scope of the inspection. The full LBP inspection did not constitute a hazard assessment.

3.0 Site Description

The structure is a wood framed, two-story commercial building.

4.0 Certifications

Mr. Neumann and is a Colorado State Certified LBP Inspector; having EPA Accreditation #23292. DS Environmental Consulting, Inc. is a Colorado State Certified Lead Evaluation Firm, license #16918. Mr. Neumann is certified to operate the RMD LPA-1 XRF Lead Paint Spectrum Analyzer by the manufacturer (see Appendix A for certificates).

5.0 Equipment Information

LBP concentrations were obtained using a RMD Model LPA-1 X-ray Florescence (XRF) Lead Paint Spectrum Analyzer, Serial #3317, which is approved by the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) to determine the concentration of lead in paint.

The RMD LPA-1 XRF Lead Paint Spectrum Analyzer was calibrated according to the manufacturer's Performance Characteristic Sheet (PCS). The XRF was calibrated using the calibration standard block of known 1.0 mg/cm² lead content as well as a standard block of known 0.0 mg/cm² lead content. Three (3) calibration reading of each block were taken before the inspection began as well as after the inspection was completed.

6.0 Inspection & Testing Procedures

The LBP inspection and XRF testing were conducted by a State of Colorado accredited LBP Inspector qualified by experience, education, and training in approved LBP testing techniques. These procedures call for the visual inspection of the areas of concern and the collection of XRF readings for lead concentrations.

This inspection was performed in accordance with the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) guidelines for lead-hazard inspections, as well as the State of Colorado Air Quality Control Commission Regulation No. 19 for the Control of Lead Hazards. The EPA's 40 CFR Part 745 Final Rule (January 5, 2001) set standards for the identification of dangerous levels of lead. The standards identify when lead-based paint, lead-contaminated dust, and lead-contaminated soil are hazards. It also establishes residential dust clean-up levels (post-abatement clearance levels) and set dust and soil sampling requirements. The lead-based paint readings were collected by XRF analyzation for the purpose of determining lead concentrations as mg/cm².

7.0 Overview of Findings

The white painted drywall walls and ceilings and off-white painted exterior walls were tested for LBP. All types of paint were found to be negative for LBP.

8.0 Conclusion & Recommendations

Since no LBP was found on the tested components, no further "lead safe" work practices are required when disturbing, removing or impacting the tested components. Additional testing is required if new materials are discovered or the scope of work changes.

9.0 Disclaimer & Limitations

This full inspection does not constitute a full lead-hazard assessment of the building.

10.0 Copyright Notice

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Asbestos Inspection and Sampling Report

14451 Riverdale Rd, Brighton, Colorado

Building I

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Dave Sinkbeil DS Environmental Consulting 12477 W Cedar Dr, Ste 101 Lakewood, CO 80228 (720) 201-6611

Project Details:

Project Number: 15140-F

Conducted: September 21, 2016



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PROJECT OVERVIEW

1.0 Introduction

On September 21, 2016, Mr. Dave Sinkbeil with DS Environmental Consulting (DS) conducted a full-building asbestos inspection and collected asbestos bulk-samples of suspect asbestos-containing materials (ACM) within the entire commercial building located at 14451 Riverdale Rd, Bldg. I, Brighton, Colorado.

The purpose of the full-building inspection was to identify and sample potentially hazardous friable and non-friable ACM that may be impacted by demolition activities. The following are the suspect asbestoscontaining materials that were collected and their respective asbestos content:

The following materials do not contain asbestos:

- Black/white roof shingles with tan paint
- Black roof shingles

2.0 Scope of Work

The scope of the full-building inspection and bulk-sampling encompassed the entire commercial building. Any other out-building or detached garage on the property was not included in the scope of the inspection. The full-building asbestos inspection conducted on September 21, 2016 constituted a full building inspection and fulfills the asbestos inspection requirements for structures that are to be demolished.

3.0 Site Description

The structure is a one-story, 4'x 8', wood constructed commercial building.

4.0 Certifications

The asbestos inspection and bulk-sampling was conducted by Mr. Dave Sinkbeil with DS. DS is a Colorado Department of Public Health and Environment (CDPHE) certified Asbestos Consulting Firm, Registration No. 14912. Mr. Sinkbeil is a CDPHE certified Building Inspector; having certification number 13015 (see Appendix A for certificates).

5.0 Inspection, Sampling & Analytical Procedures

5.1 Inspection Procedures

The full asbestos inspection was conducted by an Environmental Protection Agency (EPA) and CDPHE certified Building Inspector. The inspection procedures included identifying and sampling suspect ACM throughout the building, submitting samples to an accredited laboratory for analysis, classifying the materials and assessing their condition, and compiling a final report detailing the inspection and the analytical results of the bulk-samples.

5.2 Sampling Procedures

Statistically random bulk-samples representative of the suspect ACM of each homogeneous area were collected according to the guidelines published as EPA Final Rule: Title II of the Toxic Substances Control Act (TSCA), 15 USC, Sections 2641 through 2654 and in compliance with 40 CFR, Part 763 and CDPHE Regulation Number 8, Part B - Asbestos (Reg. 8).

DS has collected the appropriate number of bulk-samples to meet all regulatory requirements for the classification and quantity of each homogeneous area. Destructive sampling was conducted in order to locate and quantify suspect ACM from throughout the building.

5.3 Analytical Procedures

All asbestos bulk-samples were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory via Polarized Light Microscopy (PLM) for asbestos content (see Appendix B for laboratory report).

The percentage of asbestos within each individual bulk-sample can vary depending on sample location, homogeneity of the material, and the type of application. Any sample reporting a "TRACE" amount of asbestos must be considered positive for asbestos greater than 1% unless it is re-analyzed utilizing the point-count method and verified to be less than 1%.

Materials containing less than 1% asbestos are not regulated by CDPHE Regulation 8, Part B – Asbestos. However, all demolition/abatement activities should be performed following the applicable Occupational Safety and Health Administration (OSHA) regulations. This would include, but not limited to, the appropriate asbestos training for the type of material being removed/disturbed as well as having a properly trained supervisor onsite, using wet removal methods, wearing adequate personal protective equipment (HEPA-filtered particulate respirators), medical surveillance of workers, personal-exposure air monitoring, area air monitoring in occupied buildings, etc. There may also be landfill disposal requirements for these materials, depending on the facility. DS recommends that all demolition/renovation areas involving any amount of asbestos be subjected to visual inspections and a final clearance air testing by a CDPHE-certified Air Monitoring Specialist (AMS) after the work has been completed, but before any containments are dismantled and the area is reoccupied.

6.0 Homogeneous Areas

A *Homogeneous Area (HA)* includes materials that are uniform in appearance, color, texture and date of application. The asbestos content of the bulk-samples collected within a homogeneous area can be applied to the entire homogeneous area if they conform to the above characteristics and the regulated minimum sample quantities of each type of material are collected and analyzed.

6.1 Material Friability

A material can either be *friable* or *non-friable*. A friable material is one that, when dry, can be pulverized, or reduced to powder by hand pressure, a non-friable material cannot. A non-friable material may become friable if its condition had deteriorated or has been impacted by forces that have rendered it friable.

6.2 Material Classifications

Sampled materials are divided into one of the following three categories:

• *Surfacing Material*: sprayed or troweled onto structural building members

- Thermal System Insulation (TSI): any type of pipe, boiler, tank, or duct insulation
- *Miscellaneous Material*: all other materials not classified in the above two categories

6.3 Material Conditions

Sampled materials are placed into one of the three following categories of conditions:

- *Good*: none to very little visible damage or deterioration
- *Damaged*: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over less than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the damage is localized
- *Significantly Damaged*: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over greater than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the damage is localized

6.4 Sample Quantities

DS collected at least the minimum number of samples from each homogeneous area necessary to meet all regulatory requirements for the quantity of material to be disturbed. The quantities listed in this report are approximate and on-site verification of the exact quantity of each material is required. The following outlines the minimum sample quantities required per homogeneous area:

- *Surfacing Materials*: up to 1,000 ft² of material requires a minimum of three (3) samples; between 1,000 ft² and 5,000 ft² of material requires a minimum of five (5) samples; over 5,000 ft² of material requires a minimum of seven (7) samples; one (1) sample of each patch
- *Thermal System Insulation (TSI)*: each homogeneous area requires a minimum of three (3) samples; at least one (1) sample must be collected from each patch; and collect enough samples sufficient to adequately assess the material and determine the asbestos content for TSI fittings such as pipe elbows or T's.
- *Miscellaneous Materials*: collect enough samples sufficient to determine the asbestos content

7.0 Overview of Findings

DS collected a total of two (2) asbestos bulk-samples of one (1) homogeneous area. The following are the suspect asbestos-containing materials that were collected and their respective asbestos content:

The following materials do not contain asbestos:

- Black/white roof shingles with tan paint
- Black roof shingles

Table 1 below describes the materials composing each homogeneous area as well as the locations of each bulk-sample collected. Also listed is the classification, condition, friability and estimated quantity of material to be removed and/or disturbed, as well as the asbestos content within each bulk-sample. Please see *Appendix B: Analytical Data* for the layer break-down of each bulk-sample.

TABLE 1

H #	Sample ID	Sample Location	Material Description	Material Classification	Material Condition	Estimated Quantity	Material Friability	Asbestos Content
1	SHIN1-1	Roof, west side	Black/white roof shingles;	MM	C	~32 ft²	Friable	All ND
1	SHIN1-2	Roof, east side	Black shingles	MM	u	~32 112	Friable	All ND

HA - Homogeneous Area	G - Good	CHRY - Chrysotile	SM - Surfacing Material
ND - None-detected	D - Damaged	ACT - Actinolite	MM - Miscellaneous Material
TR - Trace, <1% Visual Estimate	SD - Significantly Damaged		TSI - Thermal System Insulation

8.0 Conclusion & Recommendations

Asbestos was not identified within the materials of the commercial building that were within the scope of the full building inspection and bulk-sampling performed on September 21, 2016; therefore, no professional abatement activities are required to remove or disturb the above-referenced sampled materials.

9.0 Asbestos Abatement & Demolition Requirements

If ACM is to be removed or disturbed in a single-family residence, and the total quantity exceeds any of the regulatory trigger levels of 50 linear ft. on pipes, 32 ft² on other surfaces, or the volume equivalent of a 55-gallon drum, a CDPHE-certified General Abatement Contractor (GAC) is required to perform the work. The regulatory trigger levels within a commercial building are 260 linear ft. on pipes, 160 ft² on other surfaces, or the volume equivalent of a 55-gallon drum. In addition, formal notification to CDPHE prior to the abatement of ACM as well as air monitoring, visual inspections, and final air clearances by a CDPHE-certified Asbestos AMS is required. DS can provide the client or building owner with a proposal for project design, abatement oversight and air monitoring upon request.

CDPHE regulations allow for the demolition of a building that contains non-friable asbestos-containing materials, such as caulking, mastic or resilient floor tiles. However, demolition must be completed without causing the non-friable ACM to be rendered friable. Burning a building with any ACM is prohibited. Operations such as sanding, cutting, crushing, grinding, pneumatic jacking, etc. of ACM are not permitted. Recycling of building materials such as concrete, metal, or wood that are bonded or contaminated with ACM, e.g. glue, caulking, or mastic is also prohibited. If any of the non-friable asbestos containing materials are to be recycled and rendered friable after demolition (i.e. crushing mastic-coated concrete), these materials must be abated of all ACM prior to shipping offsite for recycling.

OSHA regulations regarding occupational exposure during demolition activities is still mandatory. OSHA 29 CFR 1926.1101 requires that workers performing construction-related activities be protected from asbestos fibers in excess of the permissible exposure limit of 0.1 f/cc of air. Contractors are must comply with applicable provisions of OSHA 29 CFR 1926.1101 during demolition and renovation activities. These OSHA provisions include, but are not limited to, PPE and respirators, personnel training, personal-exposure air monitoring, employee medical surveillance, wet removal methods, signage for regulated areas, etc.

10.0 Major & Minor Asbestos Spill Response Actions

If ACM is significantly damaged and the total quantity exceeds the regulatory trigger levels, the area is deemed a "Major Asbestos Spill." The area is consequently subject to the requirements in Reg. 8, Section III.T.1. – *Major Asbestos Spills*, as outlined below. Additional asbestos air or dust sampling should also be conducted within the remaining areas not directly impacted by the Major Asbestos Spill to determine if asbestos-containing dust/debris has spread to adjacent areas. If asbestos fibers are found within any other areas or on building contents, they should be included in the scope of professional abatement and decontamination. The following response actions must be followed per Colorado Reg. 8 when a Major Asbestos Spill occurs:

• Restrict access to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.

- Shut off or temporarily modify the air handling system to prevent the distribution of asbestos fibers to other areas.
- Immediately contact the Division by telephone, submit a notification in compliance with subsection III.E. (Notifications) and, if in an area of public access, apply for a permit in accordance with subsection III.G. (Permits).
- Be exempted from the requirements to have a certified Supervisor on-site at all times, until such time as the immediate danger has passed. Any cleanup or asbestos abatement that must occur after the immediate danger has passed shall be supervised by a person certified by the Division.
- Using certified Supervisors and certified Workers in accordance with section II. (Certification Requirements) of this Regulation, seal all openings between the contaminated and uncontaminated areas and establish none-detected air pressure within the contaminated area in accordance with paragraph III.J. (Air Cleaning and None-detected Pressure Requirements). This is to be accomplished using polyethylene sheeting to cover areas such as doorways, windows, elevator openings, corridor entrances, grills, drains, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, drapes, upholstery, and other non-clothing fabrics in the contaminated area, or discard these materials.
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all surfaces in the contaminated area.
- Discard all materials in accordance with subsection III.R. (Waste Handling).
- Following completion of subparagraph III.T.1.a. through III.T.1.i. above, comply with air monitoring requirements as described in subsection III.P. (Clearing Abatement Projects); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the area and
- Comply with any other measures deemed necessary by the Division to protect public health.

In the event of an asbestos spill involving less than or equal to the trigger levels, the building owner or contractor should take the following non-mandatory steps:

- Restrict entry to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.
- Shut off or temporarily modify the air handling system to prevent the distribution of fibers to other areas in the building.
- Seal all openings between the contaminated and uncontaminated areas. This is to be accomplished by using polyethylene sheeting to cover all areas such as windows, doorways, elevator openings, corridor entrances, drains, grills, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, draperies, upholstery and other non-clothing fabrics in the contaminated area, or discard all contaminated materials in accordance with subsection III.R. (Waste Handling).
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all non-fabric surfaces in the contaminated area.
- Following completion of subparagraphs III.T.2.a. through III.T.2.f. of Regulation 8, conduct air monitoring as described in paragraph III.P.3 of Regulation 8. (Final Clearance Air Monitoring and Sample Analyses); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the work area.

11.0 Project Design & Project Manager Requirements

DS can provide an Asbestos Project Design as well as fulfill the Colorado Asbestos Project Manager requirements for any asbestos abatement project, as applicable below.

Project Design

An abatement *Project Design* is an accurate and detailed scope of work, which includes project specifications and procedures, containment design/equipment placement, and descriptions of engineering controls and work practices for an asbestos abatement project or response action that is required by CDPHE Regulation Number 8, Part B - Asbestos (Reg. 8) on large asbestos abatement projects. Prior to the start of any asbestos abatement project in a non-school building, where the amount of asbestos-containing material (ACM) to be removed or disturbed exceeds 1,000 linear feet on pipes, or 3,000 square feet on surfaces, or in a school building in which the amount of friable ACM to be abated exceeds 3 linear feet on pipes, or 3 square feet on surfaces, a written Project Design must be developed by a State of Colorado certified Project Designer in accordance with subsection IV.G.7 of Regulation 8. A signed copy shall be posted on-site prior to commencing any abatement activities, shall be available on-site at all times, and shall remain onsite until final air clearances have been completed by a State of Colorado-certified Air Monitoring Specialist (AMS).

Project Manager

A *Project Manager* shall be used on all asbestos abatement projects in which the amount of friable asbestos-containing material to be abated exceeds 1,000 linear feet on pipes, or 3,000 square feet on other surfaces per CDPHE Regulation Number 8, Part B – Section III.B.6. An asbestos Project Manager on an abatement project shall be responsible for assessing that the project is conducted in accordance with Regulation 8, assessing that the Project Design is followed, assessing that the abatement project is cleared in accordance with Regulation 8, assessing that the asbestos waste generated on the project is properly manifested and disposed of in accordance with Regulation 8, and communicating these assessments to the building owner or GAC. Project Managers must have proof of Colorado certification as an asbestos Project Designer and Air Monitoring Specialist in accordance with Section II of CDPHE Regulation 8 as well as a minimum of one (1) year of experience supervising, overseeing or monitoring asbestos abatement projects. A 4-year college degree in industrial hygiene, a degree in environmental health with a major concentration in industrial hygiene, or the possession of a certified industrial hygienist (CIH) certificate given by the American Board of Industrial Hygiene (ABIH) may be substituted for the Colorado asbestos Air Monitoring Specialist course.

The GAC shall notify the building owner during bid proposals as to whether or not a project manager is required. Project managers shall be independent of the asbestos abatement contractor and work strictly on behalf of the building owner to the extent feasible, unless the abatement is being performed in-house. Project managers must sign the original copy of the abatement permit for the permit to be valid.

12.0 Disclaimer & Limitations

The activities outlined in this report were conducted in a manner consistent with a level of care and expertise exercised by members of the environmental consulting and industrial hygiene profession. All activities were performed in accordance with all applicable federal, state, and local regulations as well as generally accepted standards and professional practice. No warranty is either expressed or implied. DS assumes no responsibility or liability for error in public information utilized, statements from sources other than DS, or developments resulting from situations outside the scope of this project.

The details provided within this report outline the inspection activities on the date(s) indicated and should not be relied upon to represent conditions at a later date, the limited number of bulk-samples collected, and the laboratory results of those bulk-samples. The laboratory results contained in this report apply specifically to the materials in which bulk-samples were collected. The results do not include or apply to any other materials within the structure that were not sampled, but may contain asbestos; including materials that may be hidden or inaccessible. Additional inspection and bulk-sampling activities would be required to determine if any other materials contain asbestos.

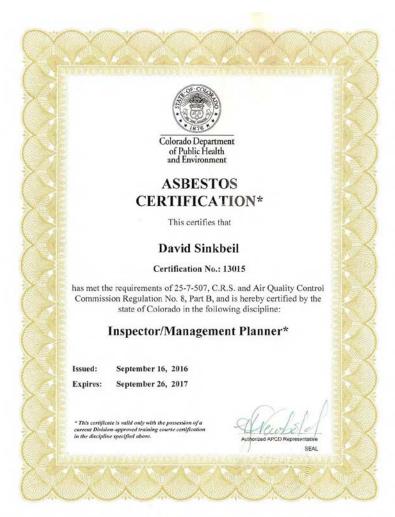
This report has been prepared on behalf of and exclusively for use by the Client, with specific application to their project as discussed in the scope of work. The results of any surfacing material indicated in this report also includes any associated overspray of that material, e.g., under carpet, above suspended ceilings, etc. The information contained in this report is intended as supplementary material for abatement design and is not to be used as the scope of work for abatement activities, bidding or billing purposes. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. DS can provide a full scope of work for abatement upon request. DS does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report.

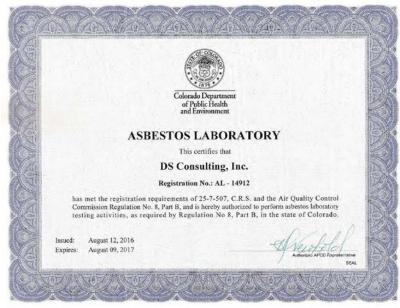
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APPENDIX A

INSPECTOR & FIRM ASBESTOS CERTIFICATES





APPENDIX B ANALYTICAL DATA



September 24, 2016 Subcontract Number: NA

Laboratory Report: RES 361404-1

Project # / P.O. # 14331 Riverdale Rd., Bldg. "I"

Project Description: Brighton

DS Environmental Consulting 12477 W. Cedar Dr., Suite 101 Lakewood CO 80228

Dear Customer,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 361404-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

Jeanne Spencer

Emily A. asey

President

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 361404-1

Client: DS Environmental Consulting
Client Project Number / P.O.: 14331 Riverdale Rd., Bldg. "I"

Client Project Description: Brighton

Date Samples Received: September 21, 2016

Method: EPA 600/R-93/116 - Short Report, Bulk

Turnaround: 3-5 Day

Date Samples Analyzed: September 24, 2016

ND=None Detected
TR=Trace, <1% Visual Estimate
Trem/Act=Tremolite/Actinolite

Client	Lab	L	Asbestos Content	Non	-
Sample Number	ID Number	A Su Y Physical Pa	t Mineral : Visual	Asbestos Fibrous	Fibrous Components
		E Description (%	Estimate	Components	(%)
SHIN 1-1	EM 1711884	A Black shingle w/ tan paint 40	ND	15	85
		B Black/white shingle w/ tan paint 60	ND	15	85
SHIN 1-2	EM 1711885	A Black/white shingle 45	ND	15	85
		B Black shingle w/ tan paint 55	ND	15	85

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.

Brett S. Colbert

Analyst / Data QA

Oue Date 5. 26-28 3.40 Due Time



5801 Logan St. Denver, CO 80216 · Ph. 303 964 1986 · Fax 303-477-4275 · Toll Free 886 RESI-ENV

INVOICE TO: (IF DIFFERENT) Pager : 303-509-2098

RES 361404

EM Number (Laborator 766114 0 LAB NOTES: Use Only) Drinking Water = DW Waste Water = ww "ASTM E1792 approved wipe media only" Collected d/e mm/yy Time Paint = P Wipe = W F = Food Bulk = B VALID MATRIX CODES Collected CONTACT INFORMATION mm/dd/yy O = Other Date Cellpager Phone Tax. Dust = D Swab = SW # Containers Soil = S Air = A Matrix Code (L) / Area Sample Volume dsconsultinginc@msn.com SAMPLER'S INITIALS OR OTHER NOTES Identification, Quantification Dave Sinkbeil 720-201-6611 Quantification 10 Final Data Deliverable Email Address 10 REQUESTED ANALYSIS +/- or Quantification FISIENS E. coli 0157.H7. Salmonella: +/-ORGANICS - METH Phone: 3× TCLP, Welding Fume, Metals Scan METALS - Analyte(s) (Additional samples shall be listed on attached long form.) Respirable JeioT - Teual, AHSO 74008,), I quant, Micro-vac, ISO-Indirect Preps AHERA, Level II, 7402, ISO, +/-, Quant, Short report, Long report, Point Count 11 "Tumaround times establish a laboratory prionty, subject to laboratory volume and are not guaranteed. Additional fees apply for afterhours, weekends and holidays." 5 Day 8109 Prior notification is required for RUSH RUSH (Same Day) PRIORITY (Next Day) VSTANDARD 3 Day 3-5 Day RD. Address 48 Hr MICROBIOLOGY LABORATORY HOURS: Weekdays: 9am - 6pm 14331 RIVERDALE BRIGHTON (Sample ID's must be unique) __ 24 hr. __ 2 Day 3-5 Day 24 Hr CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm (Rush PCM = 2hr, TEM = 6hr.) RUSH 24 hr. 3-5 Day ASBESTOS!L'ABORATORY HOURS. Weekdays: 7am - 7pm RUSH 5 day 10 day 3 day 5 Day Please call Dave with results: 720-201-6611 ... RUSH 48 Hr. Address: 12477 W Cedar Dr., Suite 101 24 hr. Salmonella, Listeria, E.coli, APC, Y & M Lakewood, CO 80228 E.coli O157:H7, Coliforms, S.aureus Company DS Consulting, Inc. Client sample ID number RCRA 8 / Metals & Welding Number of samples received: roject Number and/or P.O. #: Special Instructions oject Description & ocation. Fume Scan / TCLP SHIN PLM / PCM / TEM Metal(s) / Dust Organics 10 2 3 4 2 9 1 00 0

NOTE: REI will analyze incoming samples based upon information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing clien/Company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall constitute an analytical services agreement with payment terms of NET 30 days, failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Yes / No Initials Initials Yes/No Sealed Yes / No On Ice Time Time Sample Condition: Temp. (F°) Date Date 3:15 PM Phone Email Fax Phone Email Fax Myrel 9-21-16 Carrier Date/Time 0). Contact Contact Initials Initials 21.16 Time Time Date/Time Date Date Phone Email Fax Phone Email Fax 15% Laboratory Use Only
Received By:
Results: | Control Relinquished By: Contact Contact

APPENDIX C SAMPLE LOCATIONS

SHIN I-I

NOT-TO-SCALE
BLDG "I"



Lead-Based Paint Inspection and XRF Testing Report

14451 Riverdale Rd, Brighton, Colorado 80602

Building I

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Robert Neumann DS Environmental Consulting, Inc. 12477 W Cedar Dr, Ste 101 Lakewood, CO 80228 (720) 369 - 6609

Project Details:

Project Number: 15140-I

Conducted: September 21, 2016



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8.0	Conclusion & Recommendations
9.0	Disclaimer & Limitations
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APPENDIX A

Inspector & Firm Lead Certificates

PROJECT OVERVIEW

1.0 Introduction

On September 21, 2016, Mr. Robert Neumann with DS Environmental Consulting, Inc. (DS) performed a full lead-based paint (LBP) inspection and performed XRF testing to determine the presence of LBP on painted building components of the commercial building located at 14451 Riverdale Rd, Bldg. I, Brighton, Colorado 80602.

The term "paint" means any liquid mixture, usually of solid pigment in a liquid vehicle, used as a decorative or protective coating. This includes, but is not limited to, primer, lacquer, polyurethane, wood stain, etc. The term "lead-based paint" means any paint having concentrations of lead greater than 1.0 mg/cm², which is also Colorado's action level.

The tan painted exterior walls were tested for LBP. The one type of paint was found to be negative for LBP.

2.0 Scope of Work

The scope of the full LBP inspection included all areas of the building defined by the environmental consulting company as listed above. No garage or any out-building on the property were included in the scope of the inspection. The full LBP inspection did not constitute a hazard assessment.

3.0 Site Description

The structure is a wood framed, single-level commercial building.

4.0 Certifications

Mr. Neumann and is a Colorado State Certified LBP Inspector; having EPA Accreditation #23292. DS Environmental Consulting, Inc. is a Colorado State Certified Lead Evaluation Firm, license #16918. Mr. Neumann is certified to operate the RMD LPA-1 XRF Lead Paint Spectrum Analyzer by the manufacturer (see Appendix A for certificates).

5.0 Equipment Information

LBP concentrations were obtained using a RMD Model LPA-1 X-ray Florescence (XRF) Lead Paint Spectrum Analyzer, Serial #3317, which is approved by the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) to determine the concentration of lead in paint.

The RMD LPA-1 XRF Lead Paint Spectrum Analyzer was calibrated according to the manufacturer's Performance Characteristic Sheet (PCS). The XRF was calibrated using the calibration standard block of known 1.0 mg/cm² lead content as well as a standard block of known 0.0 mg/cm² lead content. Three (3) calibration reading of each block were taken before the inspection began as well as after the inspection was completed.

6.0 Inspection & Testing Procedures

The LBP inspection and XRF testing were conducted by a State of Colorado accredited LBP Inspector qualified by experience, education, and training in approved LBP testing techniques. These procedures call for the visual inspection of the areas of concern and the collection of XRF readings for lead concentrations.

This inspection was performed in accordance with the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) guidelines for lead-hazard inspections, as well as the State of Colorado Air Quality Control Commission Regulation No. 19 for the Control of Lead Hazards. The EPA's 40 CFR Part 745 Final Rule (January 5, 2001) set standards for the identification of dangerous levels of lead. The standards identify when lead-based paint, lead-contaminated dust, and lead-contaminated soil are hazards. It also establishes residential dust clean-up levels (post-abatement clearance levels) and set dust and soil sampling requirements. The lead-based paint readings were collected by XRF analyzation for the purpose of determining lead concentrations as mg/cm².

7.0 Overview of Findings

The tan painted exterior walls were tested for LBP. The one type of paint was found to be negative for LBP.

8.0 Conclusion & Recommendations

Since no LBP was found on the tested components, no further "lead safe" work practices are required when disturbing, removing or impacting the tested components. Additional testing is required if new materials are discovered or the scope of work changes.

9.0 Disclaimer & Limitations

This full inspection does not constitute a full lead-hazard assessment of the building.

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Asbestos Inspection and Sampling Report

14451 Riverdale Rd, Brighton, Colorado

Building J

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Dave Sinkbeil DS Environmental Consulting 12477 W Cedar Dr, Ste 101 Lakewood, CO 80228 (720) 201-6611

Project Details:

Project Number: 15140-J

Conducted: September 21, 2016



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PROJECT OVERVIEW

1.0 Introduction

On September 21, 2016, Mr. Dave Sinkbeil with DS Environmental Consulting (DS) conducted a full-building asbestos inspection and collected asbestos bulk-samples of suspect asbestos-containing materials (ACM) within the entire commercial building located at 14451 Riverdale Rd, Bldg. J, Brighton, Colorado.

The purpose of the full-building inspection was to identify and sample potentially hazardous friable and non-friable ACM that may be impacted by demolition activities. The following are the suspect asbestoscontaining materials that were collected and their respective asbestos content:

The following materials do not contain asbestos:

- Black/white/gray roof shingles
- Black/white shingles

2.0 Scope of Work

The scope of the full-building inspection and bulk-sampling encompassed the entire commercial building. Any other out-building or detached garage on the property was not included in the scope of the inspection. The full-building asbestos inspection conducted on September 21, 2016 constituted a full building inspection and fulfills the asbestos inspection requirements for structures that are to be demolished.

3.0 Site Description

The structure is a one-story, 12'x 12', wood constructed commercial building.

4.0 Certifications

The asbestos inspection and bulk-sampling was conducted by Mr. Dave Sinkbeil with DS. DS is a Colorado Department of Public Health and Environment (CDPHE) certified Asbestos Consulting Firm, Registration No. 14912. Mr. Sinkbeil is a CDPHE certified Building Inspector; having certification number 13015 (see Appendix A for certificates).

5.0 Inspection, Sampling & Analytical Procedures

5.1 Inspection Procedures

The full asbestos inspection was conducted by an Environmental Protection Agency (EPA) and CDPHE certified Building Inspector. The inspection procedures included identifying and sampling suspect ACM throughout the building, submitting samples to an accredited laboratory for analysis, classifying the materials and assessing their condition, and compiling a final report detailing the inspection and the analytical results of the bulk-samples.

5.2 Sampling Procedures

Statistically random bulk-samples representative of the suspect ACM of each homogeneous area were collected according to the guidelines published as EPA Final Rule: Title II of the Toxic Substances Control Act (TSCA), 15 USC, Sections 2641 through 2654 and in compliance with 40 CFR, Part 763 and CDPHE Regulation Number 8, Part B - Asbestos (Reg. 8).

DS has collected the appropriate number of bulk-samples to meet all regulatory requirements for the classification and quantity of each homogeneous area. Destructive sampling was conducted in order to locate and quantify suspect ACM from throughout the building.

5.3 Analytical Procedures

All asbestos bulk-samples were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory via Polarized Light Microscopy (PLM) for asbestos content (see Appendix B for laboratory report).

The percentage of asbestos within each individual bulk-sample can vary depending on sample location, homogeneity of the material, and the type of application. Any sample reporting a "TRACE" amount of asbestos must be considered positive for asbestos greater than 1% unless it is re-analyzed utilizing the point-count method and verified to be less than 1%.

Materials containing less than 1% asbestos are not regulated by CDPHE Regulation 8, Part B – Asbestos. However, all demolition/abatement activities should be performed following the applicable Occupational Safety and Health Administration (OSHA) regulations. This would include, but not limited to, the appropriate asbestos training for the type of material being removed/disturbed as well as having a properly trained supervisor onsite, using wet removal methods, wearing adequate personal protective equipment (HEPA-filtered particulate respirators), medical surveillance of workers, personal-exposure air monitoring, area air monitoring in occupied buildings, etc. There may also be landfill disposal requirements for these materials, depending on the facility. DS recommends that all demolition/renovation areas involving any amount of asbestos be subjected to visual inspections and a final clearance air testing by a CDPHE-certified Air Monitoring Specialist (AMS) after the work has been completed, but before any containments are dismantled and the area is reoccupied.

6.0 Homogeneous Areas

A *Homogeneous Area (HA)* includes materials that are uniform in appearance, color, texture and date of application. The asbestos content of the bulk-samples collected within a homogeneous area can be applied to the entire homogeneous area if they conform to the above characteristics and the regulated minimum sample quantities of each type of material are collected and analyzed.

6.1 Material Friability

A material can either be *friable* or *non-friable*. A friable material is one that, when dry, can be pulverized, or reduced to powder by hand pressure, a non-friable material cannot. A non-friable material may become friable if its condition had deteriorated or has been impacted by forces that have rendered it friable.

6.2 Material Classifications

Sampled materials are divided into one of the following three categories:

- Surfacing Material: sprayed or troweled onto structural building members
- Thermal System Insulation (TSI): any type of pipe, boiler, tank, or duct insulation
- *Miscellaneous Material*: all other materials not classified in the above two categories

6.3 Material Conditions

Sampled materials are placed into one of the three following categories of conditions:

- *Good*: none to very little visible damage or deterioration
- *Damaged*: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over less than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the damage is localized
- Significantly Damaged: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over greater than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the damage is localized

6.4 Sample Quantities

DS collected at least the minimum number of samples from each homogeneous area necessary to meet all regulatory requirements for the quantity of material to be disturbed. The quantities listed in this report are approximate and on-site verification of the exact quantity of each material is required. The following outlines the minimum sample quantities required per homogeneous area:

- *Surfacing Materials*: up to 1,000 ft² of material requires a minimum of three (3) samples; between 1,000 ft² and 5,000 ft² of material requires a minimum of five (5) samples; over 5,000 ft² of material requires a minimum of seven (7) samples; one (1) sample of each patch
- *Thermal System Insulation (TSI)*: each homogeneous area requires a minimum of three (3) samples; at least one (1) sample must be collected from each patch; and collect enough samples sufficient to adequately assess the material and determine the asbestos content for TSI fittings such as pipe elbows or T's.
- *Miscellaneous Materials*: collect enough samples sufficient to determine the asbestos content

7.0 Overview of Findings

DS collected a total of two (2) asbestos bulk-samples of one (1) homogeneous area. The following are the suspect asbestos-containing materials that were collected and their respective asbestos content:

The following materials do not contain asbestos:

- Black/white/gray roof shingles
- Black/white shingles

Table 1 below describes the materials composing each homogeneous area as well as the locations of each bulk-sample collected. Also listed is the classification, condition, friability and estimated quantity of material to be removed and/or disturbed, as well as the asbestos content within each bulk-sample. Please see *Appendix B: Analytical Data* for the layer break-down of each bulk-sample.

TABLE 1

HA #	Sample ID	Sample Location	Material Description	Material Classification	Material Condition	Estimated Quantity	Material Friability	Asbestos Content
1	SHIN1-1	Roof, East Corner	Black/white/gray roof	MM	C	1 4 4 f+2	Friable	All ND
	SHIN1-2	Roof, West Corner	shingles; Black/white shingles	MM	u	~144 ft ²	riiabie	All ND

HA - Homogeneous Area	G - Good	CHRY - Chrysotile	SM - Surfacing Material
ND - None-detected	D - Damaged	ACT - Actinolite	MM - Miscellaneous Material
TR - Trace, <1% Visual Estimate	SD - Significantly Damaged		TSI - Thermal System Insulation

8.0 Conclusion & Recommendations

Asbestos was not identified within the materials of the commercial building that were within the scope of the full building inspection and bulk-sampling performed on September 21, 2016; therefore, no professional abatement activities are required to remove or disturb the above-referenced sampled materials.

9.0 Asbestos Abatement & Demolition Requirements

If ACM is to be removed or disturbed in a single-family residence, and the total quantity exceeds any of the regulatory trigger levels of 50 linear ft. on pipes, 32 ft² on other surfaces, or the volume equivalent of a 55-gallon drum, a CDPHE-certified General Abatement Contractor (GAC) is required to perform the work. The regulatory trigger levels within a commercial building are 260 linear ft. on pipes, 160 ft² on other surfaces, or the volume equivalent of a 55-gallon drum. In addition, formal notification to CDPHE prior to the abatement of ACM as well as air monitoring, visual inspections, and final air clearances by a CDPHE-certified Asbestos AMS is required. DS can provide the client or building owner with a proposal for project design, abatement oversight and air monitoring upon request.

CDPHE regulations allow for the demolition of a building that contains non-friable asbestos-containing materials, such as caulking, mastic or resilient floor tiles. However, demolition must be completed without causing the non-friable ACM to be rendered friable. Burning a building with any ACM is prohibited. Operations such as sanding, cutting, crushing, grinding, pneumatic jacking, etc. of ACM are not permitted. Recycling of building materials such as concrete, metal, or wood that are bonded or contaminated with ACM, e.g. glue, caulking, or mastic is also prohibited. If any of the non-friable asbestos containing materials are to be recycled and rendered friable after demolition (i.e. crushing mastic-coated concrete), these materials must be abated of all ACM prior to shipping offsite for recycling.

OSHA regulations regarding occupational exposure during demolition activities is still mandatory. OSHA 29 CFR 1926.1101 requires that workers performing construction-related activities be protected from asbestos fibers in excess of the permissible exposure limit of 0.1 f/cc of air. Contractors are must comply with applicable provisions of OSHA 29 CFR 1926.1101 during demolition and renovation activities. These OSHA provisions include, but are not limited to, PPE and respirators, personnel training, personal-exposure air monitoring, employee medical surveillance, wet removal methods, signage for regulated areas, etc.

10.0 Major & Minor Asbestos Spill Response Actions

If ACM is significantly damaged and the total quantity exceeds the regulatory trigger levels, the area is deemed a "Major Asbestos Spill." The area is consequently subject to the requirements in Reg. 8, Section III.T.1. – *Major Asbestos Spills*, as outlined below. Additional asbestos air or dust sampling should also be conducted within the remaining areas not directly impacted by the Major Asbestos Spill to determine if asbestos-containing dust/debris has spread to adjacent areas. If asbestos fibers are found within any other areas or on building contents, they should be included in the scope of professional abatement and decontamination. The following response actions must be followed per Colorado Reg. 8 when a Major Asbestos Spill occurs:

• Restrict access to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.

- Shut off or temporarily modify the air handling system to prevent the distribution of asbestos fibers to other areas.
- Immediately contact the Division by telephone, submit a notification in compliance with subsection III.E. (Notifications) and, if in an area of public access, apply for a permit in accordance with subsection III.G. (Permits).
- Be exempted from the requirements to have a certified Supervisor on-site at all times, until such time as the immediate danger has passed. Any cleanup or asbestos abatement that must occur after the immediate danger has passed shall be supervised by a person certified by the Division.
- Using certified Supervisors and certified Workers in accordance with section II. (Certification Requirements) of this Regulation, seal all openings between the contaminated and uncontaminated areas and establish none-detected air pressure within the contaminated area in accordance with paragraph III.J. (Air Cleaning and None-detected Pressure Requirements). This is to be accomplished using polyethylene sheeting to cover areas such as doorways, windows, elevator openings, corridor entrances, grills, drains, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, drapes, upholstery, and other non-clothing fabrics in the contaminated area, or discard these materials.
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all surfaces in the contaminated area.
- Discard all materials in accordance with subsection III.R. (Waste Handling).
- Following completion of subparagraph III.T.1.a. through III.T.1.i. above, comply with air monitoring requirements as described in subsection III.P. (Clearing Abatement Projects); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the area and
- Comply with any other measures deemed necessary by the Division to protect public health.

In the event of an asbestos spill involving less than or equal to the trigger levels, the building owner or contractor should take the following non-mandatory steps:

- Restrict entry to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.
- Shut off or temporarily modify the air handling system to prevent the distribution of fibers to other areas in the building.
- Seal all openings between the contaminated and uncontaminated areas. This is to be accomplished by using polyethylene sheeting to cover all areas such as windows, doorways, elevator openings, corridor entrances, drains, grills, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, draperies, upholstery and other non-clothing fabrics in the contaminated area, or discard all contaminated materials in accordance with subsection III.R. (Waste Handling).
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all non-fabric surfaces in the contaminated area.
- Following completion of subparagraphs III.T.2.a. through III.T.2.f. of Regulation 8, conduct air monitoring as described in paragraph III.P.3 of Regulation 8. (Final Clearance Air Monitoring and Sample Analyses); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the work area.

11.0 Project Design & Project Manager Requirements

DS can provide an Asbestos Project Design as well as fulfill the Colorado Asbestos Project Manager requirements for any asbestos abatement project, as applicable below.

Project Design

An abatement *Project Design* is an accurate and detailed scope of work, which includes project specifications and procedures, containment design/equipment placement, and descriptions of engineering controls and work practices for an asbestos abatement project or response action that is required by CDPHE Regulation Number 8, Part B - Asbestos (Reg. 8) on large asbestos abatement projects. Prior to the start of any asbestos abatement project in a non-school building, where the amount of asbestos-containing material (ACM) to be removed or disturbed exceeds 1,000 linear feet on pipes, or 3,000 square feet on surfaces, or in a school building in which the amount of friable ACM to be abated exceeds 3 linear feet on pipes, or 3 square feet on surfaces, a written Project Design must be developed by a State of Colorado certified Project Designer in accordance with subsection IV.G.7 of Regulation 8. A signed copy shall be posted on-site prior to commencing any abatement activities, shall be available on-site at all times, and shall remain onsite until final air clearances have been completed by a State of Colorado-certified Air Monitoring Specialist (AMS).

Project Manager

A *Project Manager* shall be used on all asbestos abatement projects in which the amount of friable asbestos-containing material to be abated exceeds 1,000 linear feet on pipes, or 3,000 square feet on other surfaces per CDPHE Regulation Number 8, Part B – Section III.B.6. An asbestos Project Manager on an abatement project shall be responsible for assessing that the project is conducted in accordance with Regulation 8, assessing that the Project Design is followed, assessing that the abatement project is cleared in accordance with Regulation 8, assessing that the asbestos waste generated on the project is properly manifested and disposed of in accordance with Regulation 8, and communicating these assessments to the building owner or GAC. Project Managers must have proof of Colorado certification as an asbestos Project Designer and Air Monitoring Specialist in accordance with Section II of CDPHE Regulation 8 as well as a minimum of one (1) year of experience supervising, overseeing or monitoring asbestos abatement projects. A 4-year college degree in industrial hygiene, a degree in environmental health with a major concentration in industrial hygiene, or the possession of a certified industrial hygienist (CIH) certificate given by the American Board of Industrial Hygiene (ABIH) may be substituted for the Colorado asbestos Air Monitoring Specialist course.

The GAC shall notify the building owner during bid proposals as to whether or not a project manager is required. Project managers shall be independent of the asbestos abatement contractor and work strictly on behalf of the building owner to the extent feasible, unless the abatement is being performed in-house. Project managers must sign the original copy of the abatement permit for the permit to be valid.

12.0 Disclaimer & Limitations

The activities outlined in this report were conducted in a manner consistent with a level of care and expertise exercised by members of the environmental consulting and industrial hygiene profession. All activities were performed in accordance with all applicable federal, state, and local regulations as well as generally accepted standards and professional practice. No warranty is either expressed or implied. DS assumes no responsibility or liability for error in public information utilized, statements from sources other than DS, or developments resulting from situations outside the scope of this project.

The details provided within this report outline the inspection activities on the date(s) indicated and should not be relied upon to represent conditions at a later date, the limited number of bulk-samples collected, and the laboratory results of those bulk-samples. The laboratory results contained in this report apply specifically to the materials in which bulk-samples were collected. The results do not include or apply to any other materials within the structure that were not sampled, but may contain asbestos; including materials that may be hidden or inaccessible. Additional inspection and bulk-sampling activities would be required to determine if any other materials contain asbestos.

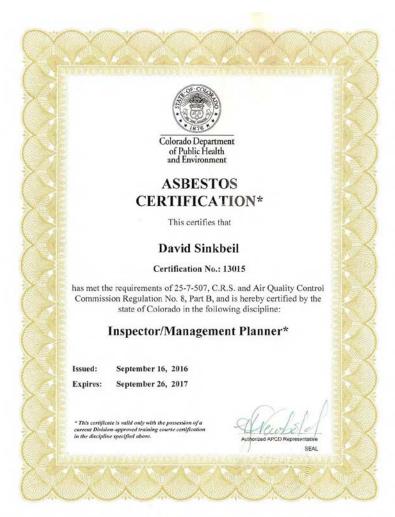
This report has been prepared on behalf of and exclusively for use by the Client, with specific application to their project as discussed in the scope of work. The results of any surfacing material indicated in this report also includes any associated overspray of that material, e.g., under carpet, above suspended ceilings, etc. The information contained in this report is intended as supplementary material for abatement design and is not to be used as the scope of work for abatement activities, bidding or billing purposes. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. DS can provide a full scope of work for abatement upon request. DS does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report.

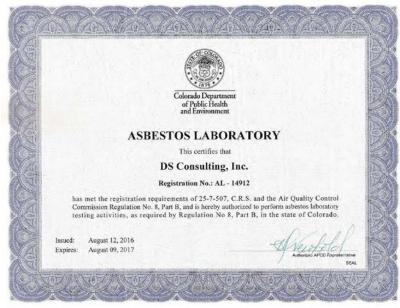
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APPENDIX A

INSPECTOR & FIRM ASBESTOS CERTIFICATES





APPENDIX B ANALYTICAL DATA



September 24, 2016 Subcontract Number: NA

Laboratory Report: RES 361407-1

Project # / P.O. # 14331 Riverdale Rd, Bldg. "J"

Project Description: Brighton

DS Environmental Consulting 12477 W. Cedar Dr., Suite 101 Lakewood CO 80228

Dear Customer,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 361407-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

Jeanne Spencer

Emily A. asey

President

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 361407-1

Client: DS Environmental Consulting
Client Project Number / P.O.: 14331 Riverdale Rd, Bldg. "J"

Client Project Description: Brighton

Date Samples Received: September 21, 2016

Method: EPA 600/R-93/116 - Short Report, Bulk

Turnaround: 3-5 Day

Date Samples Analyzed: September 24, 2016

ND=None Detected
TR=Trace, <1% Visual Estimate
Trem/Act=Tremolite/Actinolite

Client	Lab	L	CL	Asbestos Content	Non	_
Sample Number	ID Number	Y Physical	Sub Part	Mineral Visual	Asbestos Fibrous	Components
		E Description R	(%)	Estimate (%)	Components (%)	(%)
SHIN 1-1	EM 1711882	A Black/white/gray shingle	45	ND	15	85
		B Black/white shingle	55	ND	15	85
SHIN 1-2	EM 1711883	A Black/white/gray shingle	40	ND	15	85
		B Black/white shingle	60	ND	15	85

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.

Brett S. Colbert

Analyst / Data QA

Due Date: Due Time

Reservoirs Environmental, Inc.

INVOICE TO: (IF DIFFERENT)

RES 361407

CONTACT INFORMATION

5801 Logan St. Denver, CO 80216 · Ph. 303 964-1986 · Fax 303-477-4275 · Toll Free 866 RESI-ENV

Pager: 303-509-2098

EM Number (Laboraton 7 11992 LAB NOTES: Use.Only) -Collected Drinking Water = DW | Waste Water = WW "ASTM E1792 approved wipe media only" Time Wipe = W Paint = P F = Food Bulk = B VALID MATRIX CODES Collected Date 0 = Other Cellipager Contact Phone # Containers Swab = SW 3 % Dust = D Soil = S Air = A Matrix Code 691A \ (J) Sample Volume dsconsultinginc@msn.com SAMPLER'S INITIALS OR OTHER NOTES Identification, Quantification Dave Sinkbeil +/- or Quantification 720-201-6611 Ouantification 10 Final Data Deliverable Email Address 10 Quantification REQUESTED ANALYSIS Quantification +/- or Quantification Aerobic Plale Count. -/+ Engleid TH 7810 100 3 Salmonella Cell/pager ORGANICS - METH Coniaci Phone RCRA 8, TCLP, Welding Fume, Melals Scan (c) siylenA - ZJATEM (Additional samples shall be listed on attached long form.) DUST - Total, Respirable 7400B, OSHA Semi-quant, Micro-vac, ISO-Indirect Preps 1,1 AHERA, Level II, 7402, ISO, +/-, Quant, Short report, Long report, Point Count = "Turnaround times establish a laboratory priority, subject to laboratory volume and are not guaranteed. Additional fees 5 Day B10G. "Prior notification is required for RUSH PRIORITY (Next Day) STANDARD 3 Day RD. Address 48 Hr MICROBIOLOGY LABORATORY HOURS: Weekdays: 9am - 6pm (Sample ID's must be unique) RIVERDALE 16 H TON 3-5 Day 24 hr. 2 Day 24 Hr CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm RUSH 24 hr. 3-5 Day (Rush PCM = 2hr, TEM = 6hr.) ASBESTOS LABORATORY HOURS Weekdays: 7am - 7pm 5 day 10 day 5 Day Please call Dave with results: 720-201-6611 48 Hr. RUSH 3 day RUSH (Same Day) ADDIESTS: 12477 W Cedar Dr., Suite 101. RUSH 14331 24 hr. g Salmonella, Listeria, E.coli, APC, Y & M akewood CO 80228 E.coli O157:H7, Coliforms, S.aureus company DS Consulting, lac Client sample ID number Number of samples received RCRA 8 / Metals & Welding Project Number and/or P.O. # Special Instructions: Project Description Location 3 Fume Scan / TCLP SITIS PLM /PCM / TEM Metal(s) / Dust Organics Mold 2 0 3 4 2 9 00 6

NOTE: RELAMI analyze incoming samples based upon information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing clien/Company representative agrees that submission of the following samples for requested analysic as indicated on this Chain of Custody shall constitute an analysical services agreement with payment terms of NET 30 days. Tailure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Relinquished By:	Dand of	Infation!			Date/Time:	9-21-16 3:15PM	Sample Condition	0		1
Laboratory Use Only Received By:	, Elisam	Date/Time:	5	21.16	> Corne	3. Co carrier				Yes No
Results: Contact	Phone Email Fax	Date	Time						-	
	C C C C C C C C C C C C C C C C C C C	Care	Title	Initials	Contact	Phone Email Fax	Date	Time	Initials	S
Contact	Phone Email Fax	Date	Time	Initials	Initials Contact	Phone Email Fax	Date	Time	alcition	

APPENDIX C SAMPLE LOCATIONS

SHINTZ

NOT-TO-SCALE
BL DG. "J"



Lead-Based Paint Inspection and XRF Testing Report

14451 Riverdale Rd, Brighton, Colorado 80602

Building J

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Robert Neumann DS Environmental Consulting, Inc. 12477 W Cedar Dr, Ste 101 Lakewood, CO 80228 (720) 369 - 6609

Project Details:

Project Number: 15140-J

Conducted: September 21, 2016



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8.0	Conclusion & Recommendations
9.0	Disclaimer & Limitations
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APPENDIX A

Inspector & Firm Lead Certificates

PROJECT OVERVIEW

1.0 Introduction

On September 21, 2016, Mr. Robert Neumann with DS Environmental Consulting, Inc. (DS) performed a full lead-based paint (LBP) inspection and performed XRF testing to determine the presence of LBP on painted building components of the commercial building located at 14451 Riverdale Rd, Bldg. J, Brighton, Colorado 80602.

The term "paint" means any liquid mixture, usually of solid pigment in a liquid vehicle, used as a decorative or protective coating. This includes, but is not limited to, primer, lacquer, polyurethane, wood stain, etc. The term "lead-based paint" means any paint having concentrations of lead greater than 1.0 mg/cm², which is also Colorado's action level.

The tan painted exterior walls were tested for LBP. The one type of paint was found to be negative for LBP.

2.0 Scope of Work

The scope of the full LBP inspection included all areas of the building defined by the environmental consulting company as listed above. No garage or any out-building on the property were included in the scope of the inspection. The full LBP inspection did not constitute a hazard assessment.

3.0 Site Description

The structure is a wood framed, single-level commercial building.

4.0 Certifications

Mr. Neumann and is a Colorado State Certified LBP Inspector; having EPA Accreditation #23292. DS Environmental Consulting, Inc. is a Colorado State Certified Lead Evaluation Firm, license #16918. Mr. Neumann is certified to operate the RMD LPA-1 XRF Lead Paint Spectrum Analyzer by the manufacturer (see Appendix A for certificates).

5.0 Equipment Information

LBP concentrations were obtained using a RMD Model LPA-1 X-ray Florescence (XRF) Lead Paint Spectrum Analyzer, Serial #3317, which is approved by the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) to determine the concentration of lead in paint.

The RMD LPA-1 XRF Lead Paint Spectrum Analyzer was calibrated according to the manufacturer's Performance Characteristic Sheet (PCS). The XRF was calibrated using the calibration standard block of known 1.0 mg/cm² lead content as well as a standard block of known 0.0 mg/cm² lead content. Three (3) calibration reading of each block were taken before the inspection began as well as after the inspection was completed.

6.0 Inspection & Testing Procedures

The LBP inspection and XRF testing were conducted by a State of Colorado accredited LBP Inspector qualified by experience, education, and training in approved LBP testing techniques. These procedures call for the visual inspection of the areas of concern and the collection of XRF readings for lead concentrations.

This inspection was performed in accordance with the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) guidelines for lead-hazard inspections, as well as the State of Colorado Air Quality Control Commission Regulation No. 19 for the Control of Lead Hazards. The EPA's 40 CFR Part 745 Final Rule (January 5, 2001) set standards for the identification of dangerous levels of lead. The standards identify when lead-based paint, lead-contaminated dust, and lead-contaminated soil are hazards. It also establishes residential dust clean-up levels (post-abatement clearance levels) and set dust and soil sampling requirements. The lead-based paint readings were collected by XRF analyzation for the purpose of determining lead concentrations as mg/cm².

7.0 Overview of Findings

The tan painted exterior walls were tested for LBP. The one type of paint was found to be negative for LBP.

8.0 Conclusion & Recommendations

Since no LBP was found on the tested components, no further "lead safe" work practices are required when disturbing, removing or impacting the tested components. Additional testing is required if new materials are discovered or the scope of work changes.

9.0 Disclaimer & Limitations

This full inspection does not constitute a full lead-hazard assessment of the building.

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Asbestos Inspection and Sampling Report

14451 Riverdale Rd, Brighton, Colorado

Building K

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Dave Sinkbeil DS Environmental Consulting 12477 W Cedar Dr, Ste 101 Lakewood, CO 80228 (720) 201-6611

Project Details:

Project Number: 15140-K

Conducted: September 21, 2016



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PROJECT OVERVIEW

1.0 Introduction

On September 21, 2016, Mr. Dave Sinkbeil with DS Environmental Consulting (DS) conducted a full-building asbestos inspection and collected asbestos bulk-samples of suspect asbestos-containing materials (ACM) within the entire commercial building located at 14451 Riverdale Rd, Bldg. K, Brighton, Colorado.

The purpose of the full-building inspection was to identify and sample potentially hazardous friable and non-friable ACM that may be impacted by demolition activities. The following are the suspect asbestoscontaining materials that were collected and their respective asbestos content:

The following materials do not contain asbestos:

Black/white roof shingles

2.0 Scope of Work

The scope of the full-building inspection and bulk-sampling encompassed the entire commercial building. Any other out-building or detached garage on the property was not included in the scope of the inspection. The full-building asbestos inspection conducted on September 21, 2016 constituted a full building inspection and fulfills the asbestos inspection requirements for structures that are to be demolished.

3.0 Site Description

The structure is a one-story, 12'x 12', wood constructed commercial building.

4.0 Certifications

The asbestos inspection and bulk-sampling was conducted by Mr. Dave Sinkbeil with DS. DS is a Colorado Department of Public Health and Environment (CDPHE) certified Asbestos Consulting Firm, Registration No. 14912. Mr. Sinkbeil is a CDPHE certified Building Inspector; having certification number 13015 (see Appendix A for certificates).

5.0 Inspection, Sampling & Analytical Procedures

5.1 Inspection Procedures

The full asbestos inspection was conducted by an Environmental Protection Agency (EPA) and CDPHE certified Building Inspector. The inspection procedures included identifying and sampling suspect ACM throughout the building, submitting samples to an accredited laboratory for analysis, classifying the materials and assessing their condition, and compiling a final report detailing the inspection and the analytical results of the bulk-samples.

5.2 Sampling Procedures

Statistically random bulk-samples representative of the suspect ACM of each homogeneous area were collected according to the guidelines published as EPA Final Rule: Title II of the Toxic Substances Control Act (TSCA), 15 USC, Sections 2641 through 2654 and in compliance with 40 CFR, Part 763 and CDPHE Regulation Number 8, Part B - Asbestos (Reg. 8).

DS has collected the appropriate number of bulk-samples to meet all regulatory requirements for the classification and quantity of each homogeneous area. Destructive sampling was conducted in order to locate and quantify suspect ACM from throughout the building.

5.3 Analytical Procedures

All asbestos bulk-samples were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory via Polarized Light Microscopy (PLM) for asbestos content (see Appendix B for laboratory report).

The percentage of asbestos within each individual bulk-sample can vary depending on sample location, homogeneity of the material, and the type of application. Any sample reporting a "TRACE" amount of asbestos must be considered positive for asbestos greater than 1% unless it is re-analyzed utilizing the point-count method and verified to be less than 1%.

Materials containing less than 1% asbestos are not regulated by CDPHE Regulation 8, Part B – Asbestos. However, all demolition/abatement activities should be performed following the applicable Occupational Safety and Health Administration (OSHA) regulations. This would include, but not limited to, the appropriate asbestos training for the type of material being removed/disturbed as well as having a properly trained supervisor onsite, using wet removal methods, wearing adequate personal protective equipment (HEPA-filtered particulate respirators), medical surveillance of workers, personal-exposure air monitoring, area air monitoring in occupied buildings, etc. There may also be landfill disposal requirements for these materials, depending on the facility. DS recommends that all demolition/renovation areas involving any amount of asbestos be subjected to visual inspections and a final clearance air testing by a CDPHE-certified Air Monitoring Specialist (AMS) after the work has been completed, but before any containments are dismantled and the area is reoccupied.

6.0 Homogeneous Areas

A *Homogeneous Area (HA)* includes materials that are uniform in appearance, color, texture and date of application. The asbestos content of the bulk-samples collected within a homogeneous area can be applied to the entire homogeneous area if they conform to the above characteristics and the regulated minimum sample quantities of each type of material are collected and analyzed.

6.1 Material Friability

A material can either be *friable* or *non-friable*. A friable material is one that, when dry, can be pulverized, or reduced to powder by hand pressure, a non-friable material cannot. A non-friable material may become friable if its condition had deteriorated or has been impacted by forces that have rendered it friable.

6.2 Material Classifications

Sampled materials are divided into one of the following three categories:

• *Surfacing Material*: sprayed or troweled onto structural building members

- Thermal System Insulation (TSI): any type of pipe, boiler, tank, or duct insulation
- *Miscellaneous Material*: all other materials not classified in the above two categories

6.3 Material Conditions

Sampled materials are placed into one of the three following categories of conditions:

- *Good*: none to very little visible damage or deterioration
- *Damaged*: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over less than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the damage is localized
- *Significantly Damaged*: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over greater than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the damage is localized

6.4 Sample Quantities

DS collected at least the minimum number of samples from each homogeneous area necessary to meet all regulatory requirements for the quantity of material to be disturbed. The quantities listed in this report are approximate and on-site verification of the exact quantity of each material is required. The following outlines the minimum sample quantities required per homogeneous area:

- *Surfacing Materials*: up to 1,000 ft² of material requires a minimum of three (3) samples; between 1,000 ft² and 5,000 ft² of material requires a minimum of five (5) samples; over 5,000 ft² of material requires a minimum of seven (7) samples; one (1) sample of each patch
- Thermal System Insulation (TSI): each homogeneous area requires a minimum of three (3) samples; at least one (1) sample must be collected from each patch; and collect enough samples sufficient to adequately assess the material and determine the asbestos content for TSI fittings such as pipe elbows or T's.
- *Miscellaneous Materials*: collect enough samples sufficient to determine the asbestos content

7.0 Overview of Findings

DS collected a total of two (2) asbestos bulk-samples of one (1) homogeneous area. The following are the suspect asbestos-containing materials that were collected and their respective asbestos content:

The following materials do not contain asbestos:

• Black/white roof shingles

Table 1 below describes the materials composing each homogeneous area as well as the locations of each bulk-sample collected. Also listed is the classification, condition, friability and estimated quantity of material to be removed and/or disturbed, as well as the asbestos content within each bulk-sample. Please see *Appendix B: Analytical Data* for the layer break-down of each bulk-sample.

TABLE 1

HA #	Sample ID	Sample Location	Material Description	Material Classification	Material Condition	Estimated Quantity	Material Friability	Asbestos Content
1	SHIN1-1	Roof, Southeast Corner		MM	C	1 4 4 £+2	Friable	All ND
1	SHIN1-2	Roof, Northwest Corner	Black/white Roof Shingles	MM	u	~144 ft ²	riiabie	All ND

HA - Homogeneous Area	G - Good	CHRY - Chrysotile	SM - Surfacing Material
ND - None-detected	D - Damaged	ACT - Actinolite	MM - Miscellaneous Material
TR - Trace, <1% Visual Estimate	SD - Significantly Damaged		TSI - Thermal System Insulation

8.0 Conclusion & Recommendations

Asbestos was not identified within the materials of the commercial building that were within the scope of the full building inspection and bulk-sampling performed on September 21, 2016; therefore, no professional abatement activities are required to remove or disturb the above-referenced sampled materials.

9.0 Asbestos Abatement & Demolition Requirements

If ACM is to be removed or disturbed in a single-family residence, and the total quantity exceeds any of the regulatory trigger levels of 50 linear ft. on pipes, 32 ft² on other surfaces, or the volume equivalent of a 55-gallon drum, a CDPHE-certified General Abatement Contractor (GAC) is required to perform the work. The regulatory trigger levels within a commercial building are 260 linear ft. on pipes, 160 ft² on other surfaces, or the volume equivalent of a 55-gallon drum. In addition, formal notification to CDPHE prior to the abatement of ACM as well as air monitoring, visual inspections, and final air clearances by a CDPHE-certified Asbestos AMS is required. DS can provide the client or building owner with a proposal for project design, abatement oversight and air monitoring upon request.

CDPHE regulations allow for the demolition of a building that contains non-friable asbestos-containing materials, such as caulking, mastic or resilient floor tiles. However, demolition must be completed without causing the non-friable ACM to be rendered friable. Burning a building with any ACM is prohibited. Operations such as sanding, cutting, crushing, grinding, pneumatic jacking, etc. of ACM are not permitted. Recycling of building materials such as concrete, metal, or wood that are bonded or contaminated with ACM, e.g. glue, caulking, or mastic is also prohibited. If any of the non-friable asbestos containing materials are to be recycled and rendered friable after demolition (i.e. crushing mastic-coated concrete), these materials must be abated of all ACM prior to shipping offsite for recycling.

OSHA regulations regarding occupational exposure during demolition activities is still mandatory. OSHA 29 CFR 1926.1101 requires that workers performing construction-related activities be protected from asbestos fibers in excess of the permissible exposure limit of 0.1 f/cc of air. Contractors are must comply with applicable provisions of OSHA 29 CFR 1926.1101 during demolition and renovation activities. These OSHA provisions include, but are not limited to, PPE and respirators, personnel training, personal-exposure air monitoring, employee medical surveillance, wet removal methods, signage for regulated areas, etc.

10.0 Major & Minor Asbestos Spill Response Actions

If ACM is significantly damaged and the total quantity exceeds the regulatory trigger levels, the area is deemed a "Major Asbestos Spill." The area is consequently subject to the requirements in Reg. 8, Section III.T.1. – *Major Asbestos Spills*, as outlined below. Additional asbestos air or dust sampling should also be conducted within the remaining areas not directly impacted by the Major Asbestos Spill to determine if asbestos-containing dust/debris has spread to adjacent areas. If asbestos fibers are found within any other areas or on building contents, they should be included in the scope of professional abatement and decontamination. The following response actions must be followed per Colorado Reg. 8 when a Major Asbestos Spill occurs:

• Restrict access to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.

- Shut off or temporarily modify the air handling system to prevent the distribution of asbestos fibers to other areas.
- Immediately contact the Division by telephone, submit a notification in compliance with subsection III.E. (Notifications) and, if in an area of public access, apply for a permit in accordance with subsection III.G. (Permits).
- Be exempted from the requirements to have a certified Supervisor on-site at all times, until such time as the immediate danger has passed. Any cleanup or asbestos abatement that must occur after the immediate danger has passed shall be supervised by a person certified by the Division.
- Using certified Supervisors and certified Workers in accordance with section II. (Certification Requirements) of this Regulation, seal all openings between the contaminated and uncontaminated areas and establish none-detected air pressure within the contaminated area in accordance with paragraph III.J. (Air Cleaning and None-detected Pressure Requirements). This is to be accomplished using polyethylene sheeting to cover areas such as doorways, windows, elevator openings, corridor entrances, grills, drains, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, drapes, upholstery, and other non-clothing fabrics in the contaminated area, or discard these materials.
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all surfaces in the contaminated area.
- Discard all materials in accordance with subsection III.R. (Waste Handling).
- Following completion of subparagraph III.T.1.a. through III.T.1.i. above, comply with air monitoring requirements as described in subsection III.P. (Clearing Abatement Projects); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the area and
- Comply with any other measures deemed necessary by the Division to protect public health.

In the event of an asbestos spill involving less than or equal to the trigger levels, the building owner or contractor should take the following non-mandatory steps:

- Restrict entry to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.
- Shut off or temporarily modify the air handling system to prevent the distribution of fibers to other areas in the building.
- Seal all openings between the contaminated and uncontaminated areas. This is to be accomplished by using polyethylene sheeting to cover all areas such as windows, doorways, elevator openings, corridor entrances, drains, grills, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, draperies, upholstery and other non-clothing fabrics in the contaminated area, or discard all contaminated materials in accordance with subsection III.R. (Waste Handling).
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all non-fabric surfaces in the contaminated area.
- Following completion of subparagraphs III.T.2.a. through III.T.2.f. of Regulation 8, conduct air monitoring as described in paragraph III.P.3 of Regulation 8. (Final Clearance Air Monitoring and Sample Analyses); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the work area.

11.0 Project Design & Project Manager Requirements

DS can provide an Asbestos Project Design as well as fulfill the Colorado Asbestos Project Manager requirements for any asbestos abatement project, as applicable below.

Project Design

An abatement *Project Design* is an accurate and detailed scope of work, which includes project specifications and procedures, containment design/equipment placement, and descriptions of engineering controls and work practices for an asbestos abatement project or response action that is required by CDPHE Regulation Number 8, Part B - Asbestos (Reg. 8) on large asbestos abatement projects. Prior to the start of any asbestos abatement project in a non-school building, where the amount of asbestos-containing material (ACM) to be removed or disturbed exceeds 1,000 linear feet on pipes, or 3,000 square feet on surfaces, or in a school building in which the amount of friable ACM to be abated exceeds 3 linear feet on pipes, or 3 square feet on surfaces, a written Project Design must be developed by a State of Colorado certified Project Designer in accordance with subsection IV.G.7 of Regulation 8. A signed copy shall be posted on-site prior to commencing any abatement activities, shall be available on-site at all times, and shall remain onsite until final air clearances have been completed by a State of Colorado-certified Air Monitoring Specialist (AMS).

Project Manager

A *Project Manager* shall be used on all asbestos abatement projects in which the amount of friable asbestos-containing material to be abated exceeds 1,000 linear feet on pipes, or 3,000 square feet on other surfaces per CDPHE Regulation Number 8, Part B – Section III.B.6. An asbestos Project Manager on an abatement project shall be responsible for assessing that the project is conducted in accordance with Regulation 8, assessing that the Project Design is followed, assessing that the abatement project is cleared in accordance with Regulation 8, assessing that the asbestos waste generated on the project is properly manifested and disposed of in accordance with Regulation 8, and communicating these assessments to the building owner or GAC. Project Managers must have proof of Colorado certification as an asbestos Project Designer and Air Monitoring Specialist in accordance with Section II of CDPHE Regulation 8 as well as a minimum of one (1) year of experience supervising, overseeing or monitoring asbestos abatement projects. A 4-year college degree in industrial hygiene, a degree in environmental health with a major concentration in industrial hygiene, or the possession of a certified industrial hygienist (CIH) certificate given by the American Board of Industrial Hygiene (ABIH) may be substituted for the Colorado asbestos Air Monitoring Specialist course.

The GAC shall notify the building owner during bid proposals as to whether or not a project manager is required. Project managers shall be independent of the asbestos abatement contractor and work strictly on behalf of the building owner to the extent feasible, unless the abatement is being performed in-house. Project managers must sign the original copy of the abatement permit for the permit to be valid.

12.0 Disclaimer & Limitations

The activities outlined in this report were conducted in a manner consistent with a level of care and expertise exercised by members of the environmental consulting and industrial hygiene profession. All activities were performed in accordance with all applicable federal, state, and local regulations as well as generally accepted standards and professional practice. No warranty is either expressed or implied. DS assumes no responsibility or liability for error in public information utilized, statements from sources other than DS, or developments resulting from situations outside the scope of this project.

The details provided within this report outline the inspection activities on the date(s) indicated and should not be relied upon to represent conditions at a later date, the limited number of bulk-samples collected, and the laboratory results of those bulk-samples. The laboratory results contained in this report apply specifically to the materials in which bulk-samples were collected. The results do not include or apply to any other materials within the structure that were not sampled, but may contain asbestos; including materials that may be hidden or inaccessible. Additional inspection and bulk-sampling activities would be required to determine if any other materials contain asbestos.

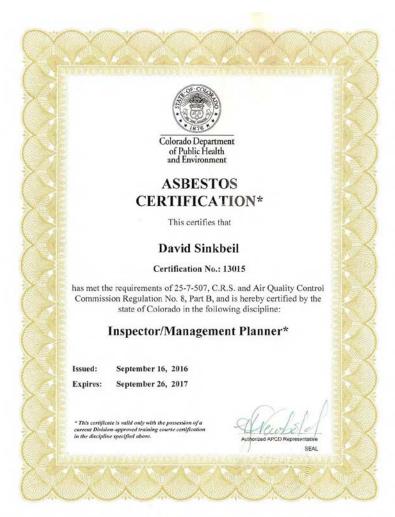
This report has been prepared on behalf of and exclusively for use by the Client, with specific application to their project as discussed in the scope of work. The results of any surfacing material indicated in this report also includes any associated overspray of that material, e.g., under carpet, above suspended ceilings, etc. The information contained in this report is intended as supplementary material for abatement design and is not to be used as the scope of work for abatement activities, bidding or billing purposes. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. DS can provide a full scope of work for abatement upon request. DS does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report.

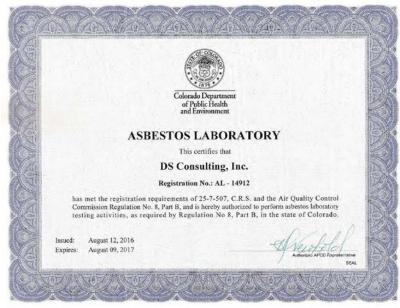
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APPENDIX A

INSPECTOR & FIRM ASBESTOS CERTIFICATES





APPENDIX B ANALYTICAL DATA



September 24, 2016 Subcontract Number: NA

Laboratory Report: RES 361403-1

Project # / P.O. # 14331 Riverdale Rd, Bldg. "K"

Project Description: Brighton

DS Environmental Consulting 12477 W. Cedar Dr., Suite 101 Lakewood CO 80228

Dear Customer,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 361403-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

Jeanne Spencer

Emily A. asey

President

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 361403-1

Client: DS Environmental Consulting
Client Project Number / P.O.: 14331 Riverdale Rd, Bldg. "K"

Client Project Description: Brighton

Date Samples Received: September 21, 2016

Method: EPA 600/R-93/116 - Short Report, Bulk

Turnaround: 3-5 Day

Date Samples Analyzed: September 24, 2016

ND=None Detected
TR=Trace, <1% Visual Estimate
Trem/Act=Tremolite/Actinolite

Client	Lab	Ļ		Asbestos Content	Non	
Sample Number	ID Number	A Physical	Sub Part	Mineral Visual		Components
		E Description R	(%)	Estimate (%)	Components (%)	(%)
SHIN 1-1	EM 1711880	A Black/white shingle	100	ND	15	85
SHIN 1-2	EM 1711881	A Black/white shingle	100	ND	15	85

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.

Brett S. Colbert

Analyst / Data QA

52-92 3.60 Due Date: Due Time

SBO1 Logan St. Deriver, CO 80218 - Ph. 303 964-1986 - Fax 303477-4275 - Toll Free 866 RESI-ENV

INVOICE TO: (IF DIFFERENT)

	- 1
403	5
361	
RES	,
	n

CONTACT INFORMATION

Pager: 303-509-2098

EM Number (Laboraton 300 LAB NOTES Use Only) ニナ Collected Drinking Water = DW | Waste Water = WW "ASTM E1792 approved wipe media only" Time Wipe = W Bulk = B Paint = P F = Food VALID MATRIX CODES Collected Date 0 = Other Phone: # Containers Swab = SW 3x. Dust = D Soil = S Air = A Matrix Code 691A \ (J) Sample Volume dsconsultinginc@msn.com SAMPLER'S INITIALS OR OTHER NOTES Identification, Quantification or Quantification Dave Sinkbeil 720-201-6611 or Quantification Final Data Deliverable Email Address Duantification REQUESTED ANALYSIS Quantification +/- of Quantification -/+ Bualsi E coli 0157.H7. Salmonella: +/-Cellipager ORGANICS - METH Contact Phone: RCRA 8, TCLP, Welding Fume, Melals Scan METALS - Analyle(s) DUST - Total, Respirable 74008, OSHA ,A0057 Semi-quant, Micro-vac, ISO-Indirect Preps AHERA, Level II, 7402, ISO, +1-, Quant, Short report, Long report, 11 "Turnaround times establish a laboratory priority, subject to laboratory volume and are not guaranteed. Additional fees apply for afterhours, weekends and holidays." 5 Day 8109 "Prior notification is required for RUSH RUSH (Same Day) PRIORITY (Next Day) VSTANDARD 3 Day 3-5 Day RD. 48 Hr Company Address MICROBIOLOGY LABORATORY HOURS: Weekdays: 9am - 6pm (Sample ID's must be unique) 3-5 Day 14331 RIVERDALE BRIGHTON 2 Day 24 Hr CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm (Rush PCM = 2hr, TEM = 6hr.) RUSH 24 hr. 3-5 Day ASBESTOS L'ABORATORY HOURS Weekdays 7am - 7pm 5 day 10 day 3 day 5 Day Please call Dave with results: 720-201-6611 48 Hr. 24 hr. RUSH Suite 101 RUSH 24 hr. Salmonella, Listeria, E.coli, APC, Y & M Lakewood, CO 80228 E.coli O157:H7, Coliforms, S.aureus Company DS Consulting, Inc. Address: 12477 W Cedar Dr. Client sample ID number RCRA 8 / Metals & Welding roled Number and/or P.O. s. Special Instructions roject Description/Location SHIN Fume Scan / TCLP PLM / PCM / TEM Metal(s) / Dust Organics Mold o W 4 2 9 œ

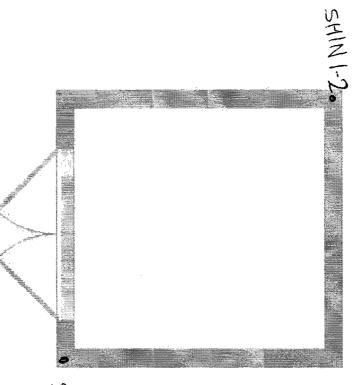
NOTE: REI will analyse recoming samples based upon information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing clien/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall considiute an analytical services acreement with narrowed terms of NET 30 data is the contract of the c (Additional samples shall be listed on attached long form.) 08

Number of samples received

10

DaterTime: 9-21-16 3:15PM Sample Condition:	7.21.16 3.40 carrer 1/2.26		Time Initials Contact Phone Email Fax Date Time
Parleil	Date/Time: 9.21/6 3.410	Date Time Initials Contact	
Relinquished By: Dand Linkbeil	aboratory Use Only () [[Sci // ()	Contact Phone Email Fax	Contact Phone Email Fax

APPENDIX C SAMPLE LOCATIONS



SIZZ

NOT-TO-SCALE
BLOG, "K"



Lead-Based Paint Inspection and XRF Testing Report

14451 Riverdale Rd, Brighton, Colorado 80602

Building K

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Robert Neumann DS Environmental Consulting, Inc. 12477 W Cedar Dr, Ste 101 Lakewood, CO 80228 (720) 369 - 6609

Project Details:

Project Number: 15140-K

Conducted: September 21, 2016



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1.0	Introduction
2.0	Scope of Work
3.0	Site Description
4.0	Certifications
5.0	Equipment Information
6.0	Inspection & Testing Procedures
7.0	Overview of Findings
8.0	Conclusion & Recommendations
9.0	Disclaimer & Limitations
10.0	Copyright Notice

APPENDIX A Inspector & Firm Lead Certificates

PROJECT OVERVIEW

1.0 Introduction

On September 21, 2016, Mr. Robert Neumann with DS Environmental Consulting, Inc. (DS) performed a full lead-based paint (LBP) inspection and performed XRF testing to determine the presence of LBP on painted building components of the commercial building located at 14451 Riverdale Rd, Bldg. K, Brighton, Colorado 80602.

The term "paint" means any liquid mixture, usually of solid pigment in a liquid vehicle, used as a decorative or protective coating. This includes, but is not limited to, primer, lacquer, polyurethane, wood stain, etc. The term "lead-based paint" means any paint having concentrations of lead greater than 1.0 mg/cm², which is also Colorado's action level.

The tan painted exterior walls were tested for LBP. The one type of paint was found to be negative for LBP.

2.0 Scope of Work

The scope of the full LBP inspection included all areas of the building defined by the environmental consulting company as listed above. No garage or any out-building on the property were included in the scope of the inspection. The full LBP inspection did not constitute a hazard assessment.

3.0 Site Description

The structure is a wood framed, single-level commercial building.

4.0 Certifications

Mr. Neumann and is a Colorado State Certified LBP Inspector; having EPA Accreditation #23292. DS Environmental Consulting, Inc. is a Colorado State Certified Lead Evaluation Firm, license #16918. Mr. Neumann is certified to operate the RMD LPA-1 XRF Lead Paint Spectrum Analyzer by the manufacturer (see Appendix A for certificates).

5.0 Equipment Information

LBP concentrations were obtained using a RMD Model LPA-1 X-ray Florescence (XRF) Lead Paint Spectrum Analyzer, Serial #3317, which is approved by the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) to determine the concentration of lead in paint.

The RMD LPA-1 XRF Lead Paint Spectrum Analyzer was calibrated according to the manufacturer's Performance Characteristic Sheet (PCS). The XRF was calibrated using the calibration standard block of known 1.0 mg/cm² lead content as well as a standard block of known 0.0 mg/cm² lead content. Three (3) calibration reading of each block were taken before the inspection began as well as after the inspection was completed.

6.0 Inspection & Testing Procedures

The LBP inspection and XRF testing were conducted by a State of Colorado accredited LBP Inspector qualified by experience, education, and training in approved LBP testing techniques. These procedures call for the visual inspection of the areas of concern and the collection of XRF readings for lead concentrations.

This inspection was performed in accordance with the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) guidelines for lead-hazard inspections, as well as the State of Colorado Air Quality Control Commission Regulation No. 19 for the Control of Lead Hazards. The EPA's 40 CFR Part 745 Final Rule (January 5, 2001) set standards for the identification of dangerous levels of lead. The standards identify when lead-based paint, lead-contaminated dust, and lead-contaminated soil are hazards. It also establishes residential dust clean-up levels (post-abatement clearance levels) and set dust and soil sampling requirements. The lead-based paint readings were collected by XRF analyzation for the purpose of determining lead concentrations as mg/cm².

7.0 Overview of Findings

The tan painted exterior walls were tested for LBP. The one type of paint was found to be negative for LBP.

8.0 Conclusion & Recommendations

Since no LBP was found on the tested components, no further "lead safe" work practices are required when disturbing, removing or impacting the tested components. Additional testing is required if new materials are discovered or the scope of work changes.

9.0 Disclaimer & Limitations

This full inspection does not constitute a full lead-hazard assessment of the building.

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Asbestos Inspection and Sampling Report

14451 Riverdale Rd, Brighton, Colorado

Building L

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Dave Sinkbeil DS Environmental Consulting 12477 W Cedar Dr, Ste 101 Lakewood, CO 80228 (720) 201-6611

Project Details:

Project Number: 15140-L Conducted: October 19, 2016



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APPENDIX A Inspector & Firm Asbestos Certificates

PROJECT OVERVIEW

1.0 Introduction

On October 19, 2016, Mr. Dave Sinkbeil with DS Environmental Consulting (DS) conducted a full-building asbestos inspection of suspect asbestos-containing materials (ACM) within the entire commercial building located at 14451 Riverdale Rd, Bldg. L, Brighton, Colorado.

The purpose of the full-building inspection was to identify and sample potentially hazardous friable and non-friable ACM that may be impacted by demolition activities. No suspect asbestos containing materials were identified within the structure.

2.0 Scope of Work

The scope of the full-building inspection and bulk-sampling encompassed the entire commercial building. Any other out-building or detached garage on the property was not included in the scope of the inspection. The full-building asbestos inspection conducted on October 19, 2016 constituted a full building inspection and fulfills the asbestos inspection requirements for structures that are to be demolished.

3.0 Site Description

The structure is a small, steel storage shed.

4.0 Certifications

The asbestos inspection and bulk-sampling was conducted by Mr. Dave Sinkbeil with DS. DS is a Colorado Department of Public Health and Environment (CDPHE) certified Asbestos Consulting Firm, Registration No. 14912. Mr. Sinkbeil is a CDPHE certified Building Inspector; having certification number 13015 (see Appendix A for certificates).

5.0 Inspection, Sampling & Analytical Procedures

5.1 Inspection Procedures

The full asbestos inspection was conducted by an Environmental Protection Agency (EPA) and CDPHE certified Building Inspector. The inspection procedures included identifying and sampling suspect ACM throughout the building, submitting samples to an accredited laboratory for analysis, classifying the materials and assessing their condition, and compiling a final report detailing the inspection and the analytical results of the bulk-samples.

5.2 Sampling Procedures

Statistically random bulk-samples representative of the suspect ACM of each homogeneous area were collected according to the guidelines published as EPA Final Rule: Title II of the Toxic Substances Control Act (TSCA), 15 USC, Sections 2641 through 2654 and in compliance with 40 CFR, Part 763 and CDPHE Regulation Number 8, Part B - Asbestos (Reg. 8).

DS has collected the appropriate number of bulk-samples to meet all regulatory requirements for the classification and quantity of each homogeneous area. Destructive sampling was conducted in order to locate and quantify suspect ACM from throughout the building.

5.3 Analytical Procedures

All asbestos bulk-samples were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory via Polarized Light Microscopy (PLM) for asbestos content (see Appendix B for laboratory report).

The percentage of asbestos within each individual bulk-sample can vary depending on sample location, homogeneity of the material, and the type of application. Any sample reporting a "TRACE" amount of asbestos must be considered positive for asbestos greater than 1% unless it is re-analyzed utilizing the point-count method and verified to be less than 1%.

Materials containing less than 1% asbestos are not regulated by CDPHE Regulation 8, Part B – Asbestos. However, all demolition/abatement activities should be performed following the applicable Occupational Safety and Health Administration (OSHA) regulations. This would include, but not limited to, the appropriate asbestos training for the type of material being removed/disturbed as well as having a properly trained supervisor onsite, using wet removal methods, wearing adequate personal protective equipment (HEPA-filtered particulate respirators), medical surveillance of workers, personal-exposure air monitoring, area air monitoring in occupied buildings, etc. There may also be landfill disposal requirements for these materials, depending on the facility. DS recommends that all demolition/renovation areas involving any amount of asbestos be subjected to visual inspections and a final clearance air testing by a CDPHE-certified Air Monitoring Specialist (AMS) after the work has been completed, but before any containments are dismantled and the area is reoccupied.

6.0 Homogeneous Areas

A *Homogeneous Area (HA)* includes materials that are uniform in appearance, color, texture and date of application. The asbestos content of the bulk-samples collected within a homogeneous area can be applied to the entire homogeneous area if they conform to the above characteristics and the regulated minimum sample quantities of each type of material are collected and analyzed.

6.1 Material Friability

A material can either be *friable* or *non-friable*. A friable material is one that, when dry, can be pulverized, or reduced to powder by hand pressure, a non-friable material cannot. A non-friable material may become friable if its condition had deteriorated or has been impacted by forces that have rendered it friable.

6.2 Material Classifications

Sampled materials are divided into one of the following three categories:

- *Surfacing Material*: sprayed or troweled onto structural building members
- Thermal System Insulation (TSI): any type of pipe, boiler, tank, or duct insulation
- *Miscellaneous Material*: all other materials not classified in the above two categories

6.3 Material Conditions

Sampled materials are placed into one of the three following categories of conditions:

- *Good*: none to very little visible damage or deterioration
- *Damaged*: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over less than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the damage is localized
- *Significantly Damaged*: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over greater than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the damage is localized

6.4 Sample Quantities

DS collected at least the minimum number of samples from each homogeneous area necessary to meet all regulatory requirements for the quantity of material to be disturbed. The quantities listed in this report are approximate and on-site verification of the exact quantity of each material is required. The following outlines the minimum sample quantities required per homogeneous area:

- *Surfacing Materials*: up to 1,000 ft² of material requires a minimum of three (3) samples; between 1,000 ft² and 5,000 ft² of material requires a minimum of five (5) samples; over 5,000 ft² of material requires a minimum of seven (7) samples; one (1) sample of each patch
- *Thermal System Insulation (TSI)*: each homogeneous area requires a minimum of three (3) samples; at least one (1) sample must be collected from each patch; and collect enough samples sufficient to adequately assess the material and determine the asbestos content for TSI fittings such as pipe elbows or T's.
- *Miscellaneous Materials*: collect enough samples sufficient to determine the asbestos content

7.0 Overview of Findings

No suspect asbestos containing materials were identified within the metal structure.

8.0 Conclusion & Recommendations

No suspect asbestos containing materials were identified and no bulk samples were collected from within the commercial building during the full building inspection performed on October 19, 2016; therefore, no professional abatement activities are required to remove or disturb any materials within this building.

9.0 Asbestos Abatement & Demolition Requirements

If ACM is to be removed or disturbed in a single-family residence, and the total quantity exceeds any of the regulatory trigger levels of 50 linear ft. on pipes, 32 ft² on other surfaces, or the volume equivalent of a 55-gallon drum, a CDPHE-certified General Abatement Contractor (GAC) is required to perform the work. The regulatory trigger levels within a commercial building are 260 linear ft. on pipes, 160 ft² on other surfaces, or the volume equivalent of a 55-gallon drum. In addition, formal notification to CDPHE prior to the abatement of ACM as well as air monitoring, visual inspections, and final air clearances by a CDPHE-certified Asbestos AMS is required. DS can provide the client or building owner with a proposal for project design, abatement oversight and air monitoring upon request.

CDPHE regulations allow for the demolition of a building that contains non-friable asbestos-containing materials, such as caulking, mastic or resilient floor tiles. However, demolition must be completed without causing the non-friable ACM to be rendered friable. Burning a building with any ACM is prohibited. Operations such as sanding, cutting, crushing, grinding, pneumatic jacking, etc. of ACM are not permitted. Recycling of building materials such as concrete, metal, or wood that are bonded or contaminated with ACM, e.g. glue, caulking, or mastic is also prohibited. If any of the non-friable asbestos containing materials are to be recycled and rendered friable after demolition (i.e. crushing mastic-coated concrete), these materials must be abated of all ACM prior to shipping offsite for recycling.

OSHA regulations regarding occupational exposure during demolition activities is still mandatory. OSHA 29 CFR 1926.1101 requires that workers performing construction-related activities be protected from asbestos fibers in excess of the permissible exposure limit of 0.1 f/cc of air. Contractors are must comply with applicable provisions of OSHA 29 CFR 1926.1101 during demolition and renovation activities. These OSHA provisions include, but are not limited to, PPE and respirators, personnel training, personal-exposure air monitoring, employee medical surveillance, wet removal methods, signage for regulated areas, etc.

10.0 Major & Minor Asbestos Spill Response Actions

If ACM is significantly damaged and the total quantity exceeds the regulatory trigger levels, the area is deemed a "Major Asbestos Spill." The area is consequently subject to the requirements in Reg. 8, Section III.T.1. – *Major Asbestos Spills*, as outlined below. Additional asbestos air or dust sampling should also be conducted within the remaining areas not directly impacted by the Major Asbestos Spill to determine if asbestos-containing dust/debris has spread to adjacent areas. If asbestos fibers are found within any other areas or on building contents, they should be included in the scope of professional abatement and decontamination. The following response actions must be followed per Colorado Reg. 8 when a Major Asbestos Spill occurs:

- Restrict access to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.
- Shut off or temporarily modify the air handling system to prevent the distribution of asbestos fibers to other areas.
- Immediately contact the Division by telephone, submit a notification in compliance with subsection III.E. (Notifications) and, if in an area of public access, apply for a permit in accordance with subsection III.G. (Permits).
- Be exempted from the requirements to have a certified Supervisor on-site at all times, until such time as the immediate danger has passed. Any cleanup or asbestos abatement that must occur after the immediate danger has passed shall be supervised by a person certified by the Division.
- Using certified Supervisors and certified Workers in accordance with section II. (Certification Requirements) of this Regulation, seal all openings between the contaminated and uncontaminated areas and establish none-detected air pressure within the contaminated area in accordance with paragraph III.J. (Air Cleaning and None-detected Pressure Requirements). This is to be accomplished using polyethylene sheeting to cover areas such as doorways, windows, elevator openings, corridor entrances, grills, drains, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, drapes, upholstery, and other non-clothing fabrics in the contaminated area, or discard these materials.
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all surfaces in the contaminated area.
- Discard all materials in accordance with subsection III.R. (Waste Handling).

- Following completion of subparagraph III.T.1.a. through III.T.1.i. above, comply with air monitoring requirements as described in subsection III.P. (Clearing Abatement Projects); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the area and
- Comply with any other measures deemed necessary by the Division to protect public health.

In the event of an asbestos spill involving less than or equal to the trigger levels, the building owner or contractor should take the following non-mandatory steps:

- Restrict entry to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.
- Shut off or temporarily modify the air handling system to prevent the distribution of fibers to other areas in the building.
- Seal all openings between the contaminated and uncontaminated areas. This is to be accomplished by using polyethylene sheeting to cover all areas such as windows, doorways, elevator openings, corridor entrances, drains, grills, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, draperies, upholstery and other non-clothing fabrics in the contaminated area, or discard all contaminated materials in accordance with subsection III.R. (Waste Handling).
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all non-fabric surfaces in the contaminated area.
- Following completion of subparagraphs III.T.2.a. through III.T.2.f. of Regulation 8, conduct air monitoring as described in paragraph III.P.3 of Regulation 8. (Final Clearance Air Monitoring and Sample Analyses); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the work area.

11.0 Project Design & Project Manager Requirements

DS can provide an Asbestos Project Design as well as fulfill the Colorado Asbestos Project Manager requirements for any asbestos abatement project, as applicable below.

Project Design

An abatement *Project Design* is an accurate and detailed scope of work, which includes project specifications and procedures, containment design/equipment placement, and descriptions of engineering controls and work practices for an asbestos abatement project or response action that is required by CDPHE Regulation Number 8, Part B - Asbestos (Reg. 8) on large asbestos abatement projects. Prior to the start of any asbestos abatement project in a non-school building, where the amount of asbestos-containing material (ACM) to be removed or disturbed exceeds 1,000 linear feet on pipes, or 3,000 square feet on surfaces, or in a school building in which the amount of friable ACM to be abated exceeds 3 linear feet on pipes, or 3 square feet on surfaces, a written Project Design must be developed by a State of Colorado certified Project Designer in accordance with subsection IV.G.7 of Regulation 8. A signed copy shall be posted on-site prior to commencing any abatement activities, shall be available onsite at all times, and shall remain onsite until final air clearances have been completed by a State of Colorado-certified Air Monitoring Specialist (AMS).

Project Manager

A *Project Manager* shall be used on all asbestos abatement projects in which the amount of friable asbestos-containing material to be abated exceeds 1,000 linear feet on pipes, or 3,000 square feet on other surfaces per CDPHE Regulation Number 8, Part B – Section III.B.6. An asbestos Project Manager on an abatement project shall be responsible for assessing that the project is conducted in accordance with Regulation 8, assessing that the Project Design is followed, assessing that the abatement project is cleared in accordance with Regulation 8, assessing that the asbestos waste generated on the project is properly manifested and disposed of in accordance with Regulation 8, and communicating these assessments to the building owner or GAC. Project Managers must have proof of Colorado certification as an asbestos Project Designer and Air Monitoring Specialist in accordance with Section II of CDPHE Regulation 8 as well as a minimum of one (1) year of experience supervising, overseeing or monitoring asbestos abatement projects. A 4-year college degree in industrial hygiene, a degree in environmental health with a major concentration in industrial hygiene, or the possession of a certified industrial hygienist (CIH) certificate given by the American Board of Industrial Hygiene (ABIH) may be substituted for the Colorado asbestos Air Monitoring Specialist course.

The GAC shall notify the building owner during bid proposals as to whether or not a project manager is required. Project managers shall be independent of the asbestos abatement contractor and work strictly on behalf of the building owner to the extent feasible, unless the abatement is being performed in-house. Project managers must sign the original copy of the abatement permit for the permit to be valid.

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The activities outlined in this report were conducted in a manner consistent with a level of care and expertise exercised by members of the environmental consulting and industrial hygiene profession. All activities were performed in accordance with all applicable federal, state, and local regulations as well as generally accepted standards and professional practice. No warranty is either expressed or implied. DS assumes no responsibility or liability for error in public information utilized, statements from sources other than DS, or developments resulting from situations outside the scope of this project.

The details provided within this report outline the inspection activities on the date(s) indicated and should not be relied upon to represent conditions at a later date, the limited number of bulk-samples collected, and the laboratory results of those bulk-samples. The laboratory results contained in this report apply specifically to the materials in which bulk-samples were collected. The results do not include or apply to any other materials within the structure that were not sampled, but may contain asbestos; including materials that may be hidden or inaccessible. Additional inspection and bulk-sampling activities would be required to determine if any other materials contain asbestos.

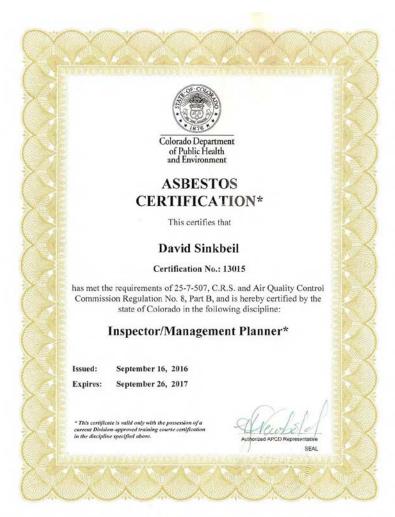
This report has been prepared on behalf of and exclusively for use by the Client, with specific application to their project as discussed in the scope of work. The results of any surfacing material indicated in this report also includes any associated overspray of that material, e.g., under carpet, above suspended ceilings, etc. The information contained in this report is intended as supplementary material for abatement design and is not to be used as the scope of work for abatement activities, bidding or billing purposes. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. DS can provide a full scope of work for abatement upon request. DS does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report.

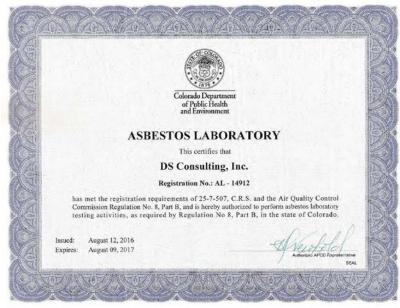
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APPENDIX A

INSPECTOR & FIRM ASBESTOS CERTIFICATES







Lead-Based Paint Inspection and XRF Testing Report

14451 Riverdale Rd, Brighton, Colorado 80602

Building L

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Robert Neumann DS Environmental Consulting, Inc. 12477 W Cedar Dr, Ste. 101 Lakewood, CO 80228 (720) 369 - 6609

Project Details:

Project Number: 15140-L Conducted: October 13, 2016



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APPENDIX A Inspector & Firm Lead Certificates

1.0 Introduction

On October 13, 2016, Mr. Rob Neumann with DS Environmental Consulting, Inc. (DS) performed a full lead-based paint (LBP) inspection and performed XRF testing to determine the presence of LBP on painted building components of the metal storage container located at 14451 Riverdale Rd, Bldg. L, Brighton, Colorado 80602.

The term "paint" means any liquid mixture, usually of solid pigment in a liquid vehicle, used as a decorative or protective coating. This includes, but is not limited to, primer, lacquer, polyurethane, wood stain, etc. The term "lead-based paint" means any paint having concentrations of lead greater than 1.0 mg/cm², which is also Colorado's action level.

The white and red painted metal exterior metals walls were tested for LBP. All types of paint were found to be negative for LBP.

2.0 Scope of Work

The scope of the full LBP inspection included all areas of the storage container defined by the environmental consulting company as listed above. No garage or any out-building on the property were included in the scope of the inspection. The full LBP inspection did not constitute a hazard assessment.

3.0 Site Description

The structure is a small metal exterior and wood interior, storage magazine.

4.0 Certifications

Mr. Neumann and is a Colorado State Certified LBP Inspector; having EPA Accreditation #23292. DS Environmental Consulting, Inc. is a Colorado State Certified Lead Evaluation Firm, license #16918. Mr. Neumann is certified to operate the RMD LPA-1 XRF Lead Paint Spectrum Analyzer by the manufacturer (see Appendix A for certificates).

5.0 Equipment Information

LBP concentrations were obtained using a RMD Model LPA-1 X-ray Florescence (XRF) Lead Paint Spectrum Analyzer, Serial #3317, which is approved by the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) to determine the concentration of lead in paint.

The RMD LPA-1 XRF Lead Paint Spectrum Analyzer was calibrated according to the manufacturer's Performance Characteristic Sheet (PCS). The XRF was calibrated using the calibration standard block of known 1.0 mg/cm² lead content as well as a standard block of known 0.0 mg/cm² lead content. Three (3) calibration reading of each block were taken before the inspection began as well as after the inspection was completed.

6.0 Inspection & Testing Procedures

The LBP inspection and XRF testing were conducted by a State of Colorado accredited LBP Inspector qualified by experience, education, and training in approved LBP testing techniques. These procedures call for the visual inspection of the areas of concern and the collection of XRF readings for lead concentrations.

This inspection was performed in accordance with the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) guidelines for lead-hazard inspections, as well as the State of Colorado Air Quality Control Commission Regulation No. 19 for the Control of Lead Hazards. The EPA's 40 CFR Part 745 Final Rule (January 5, 2001) set standards for the identification of dangerous levels of lead. The standards identify when lead-based paint, lead-contaminated dust, and lead-contaminated soil are hazards. It also establishes residential dust clean-up levels (post-abatement clearance levels) and set dust and soil sampling requirements. The lead-based paint readings were collected by XRF analyzation for the purpose of determining lead concentrations as mg/cm².

7.0 Overview of Findings

The white and red painted metal exterior walls were tested for LBP. All types of paint were found to be negative for LBP.

8.0 Conclusion & Recommendations

Since no LBP was found on the tested components, no further "lead safe" work practices are required when disturbing, removing or impacting the tested components. Additional testing is required if new materials are discovered or the scope of work changes.

9.0 Disclaimer & Limitations

This full inspection does not constitute a full lead-hazard assessment of the building.

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Asbestos Inspection and Sampling Report

14451 Riverdale Rd, Brighton, Colorado

Building M

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Dave Sinkbeil DS Environmental Consulting 12477 W Cedar Dr, Ste 101 Lakewood, CO 80228 (720) 201-6611

Project Details:

Project Number: 15140-M Conducted: October 19, 2016



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APPENDIX A Inspector & Firm Asbestos Certificates

PROJECT OVERVIEW

1.0 Introduction

On October 19, 2016, Mr. Dave Sinkbeil with DS Environmental Consulting (DS) conducted a full-building asbestos inspection of suspect asbestos-containing materials (ACM) within the entire commercial building located at 14451 Riverdale Rd, Bldg. L, Brighton, Colorado.

The purpose of the full-building inspection was to identify and sample potentially hazardous friable and non-friable ACM that may be impacted by demolition activities. No suspect asbestos containing materials were identified within the structure.

2.0 Scope of Work

The scope of the full-building inspection and bulk-sampling encompassed the entire commercial building. Any other out-building or detached garage on the property was not included in the scope of the inspection. The full-building asbestos inspection conducted on October 19, 2016 constituted a full building inspection and fulfills the asbestos inspection requirements for structures that are to be demolished.

3.0 Site Description

The structure is a small, steel storage shed.

4.0 Certifications

The asbestos inspection and bulk-sampling was conducted by Mr. Dave Sinkbeil with DS. DS is a Colorado Department of Public Health and Environment (CDPHE) certified Asbestos Consulting Firm, Registration No. 14912. Mr. Sinkbeil is a CDPHE certified Building Inspector; having certification number 13015 (see Appendix A for certificates).

5.0 Inspection, Sampling & Analytical Procedures

5.1 Inspection Procedures

The full asbestos inspection was conducted by an Environmental Protection Agency (EPA) and CDPHE certified Building Inspector. The inspection procedures included identifying and sampling suspect ACM throughout the building, submitting samples to an accredited laboratory for analysis, classifying the materials and assessing their condition, and compiling a final report detailing the inspection and the analytical results of the bulk-samples.

5.2 Sampling Procedures

Statistically random bulk-samples representative of the suspect ACM of each homogeneous area were collected according to the guidelines published as EPA Final Rule: Title II of the Toxic Substances Control Act (TSCA), 15 USC, Sections 2641 through 2654 and in compliance with 40 CFR, Part 763 and CDPHE Regulation Number 8, Part B - Asbestos (Reg. 8).

DS has collected the appropriate number of bulk-samples to meet all regulatory requirements for the classification and quantity of each homogeneous area. Destructive sampling was conducted in order to locate and quantify suspect ACM from throughout the building.

5.3 Analytical Procedures

All asbestos bulk-samples were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory via Polarized Light Microscopy (PLM) for asbestos content (see Appendix B for laboratory report).

The percentage of asbestos within each individual bulk-sample can vary depending on sample location, homogeneity of the material, and the type of application. Any sample reporting a "TRACE" amount of asbestos must be considered positive for asbestos greater than 1% unless it is re-analyzed utilizing the point-count method and verified to be less than 1%.

Materials containing less than 1% asbestos are not regulated by CDPHE Regulation 8, Part B – Asbestos. However, all demolition/abatement activities should be performed following the applicable Occupational Safety and Health Administration (OSHA) regulations. This would include, but not limited to, the appropriate asbestos training for the type of material being removed/disturbed as well as having a properly trained supervisor onsite, using wet removal methods, wearing adequate personal protective equipment (HEPA-filtered particulate respirators), medical surveillance of workers, personal-exposure air monitoring, area air monitoring in occupied buildings, etc. There may also be landfill disposal requirements for these materials, depending on the facility. DS recommends that all demolition/renovation areas involving any amount of asbestos be subjected to visual inspections and a final clearance air testing by a CDPHE-certified Air Monitoring Specialist (AMS) after the work has been completed, but before any containments are dismantled and the area is reoccupied.

6.0 Homogeneous Areas

A *Homogeneous Area (HA)* includes materials that are uniform in appearance, color, texture and date of application. The asbestos content of the bulk-samples collected within a homogeneous area can be applied to the entire homogeneous area if they conform to the above characteristics and the regulated minimum sample quantities of each type of material are collected and analyzed.

6.1 Material Friability

A material can either be *friable* or *non-friable*. A friable material is one that, when dry, can be pulverized, or reduced to powder by hand pressure, a non-friable material cannot. A non-friable material may become friable if its condition had deteriorated or has been impacted by forces that have rendered it friable.

6.2 Material Classifications

Sampled materials are divided into one of the following three categories:

- *Surfacing Material*: sprayed or troweled onto structural building members
- *Thermal System Insulation (TSI)*: any type of pipe, boiler, tank, or duct insulation
- *Miscellaneous Material*: all other materials not classified in the above two categories

6.3 Material Conditions

Sampled materials are placed into one of the three following categories of conditions:

- *Good*: none to very little visible damage or deterioration
- *Damaged*: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over less than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the damage is localized
- Significantly Damaged: the surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over greater than one-tenth of the surface if the damage is evenly distributed, or one-quarter if the damage is localized

6.4 Sample Quantities

DS collected at least the minimum number of samples from each homogeneous area necessary to meet all regulatory requirements for the quantity of material to be disturbed. The quantities listed in this report are approximate and on-site verification of the exact quantity of each material is required. The following outlines the minimum sample quantities required per homogeneous area:

- *Surfacing Materials*: up to 1,000 ft² of material requires a minimum of three (3) samples; between 1,000 ft² and 5,000 ft² of material requires a minimum of five (5) samples; over 5,000 ft² of material requires a minimum of seven (7) samples; one (1) sample of each patch
- Thermal System Insulation (TSI): each homogeneous area requires a minimum of three (3) samples; at least one (1) sample must be collected from each patch; and collect enough samples sufficient to adequately assess the material and determine the asbestos content for TSI fittings such as pipe elbows or T's.
- *Miscellaneous Materials*: collect enough samples sufficient to determine the asbestos content

7.0 Overview of Findings

No suspect asbestos containing materials were identified within the structure.

8.0 Conclusion & Recommendations

Asbestos was not identified within the materials of the commercial building that were within the scope of the full building inspection performed on October 19, 2016; therefore, no professional abatement activities are required to remove any materials.

9.0 Asbestos Abatement & Demolition Requirements

If ACM is to be removed or disturbed in a single-family residence, and the total quantity exceeds any of the regulatory trigger levels of 50 linear ft. on pipes, 32 ft² on other surfaces, or the volume equivalent of a 55-gallon drum, a CDPHE-certified General Abatement Contractor (GAC) is required to perform the work. The regulatory trigger levels within a commercial building are 260 linear ft. on pipes, 160 ft² on other surfaces, or the volume equivalent of a 55-gallon drum. In addition, formal notification to CDPHE prior to the abatement of ACM as well as air monitoring, visual inspections, and final air clearances by a CDPHE-certified Asbestos AMS is required. DS can provide the client or building owner with a proposal for project design, abatement oversight and air monitoring upon request.

CDPHE regulations allow for the demolition of a building that contains non-friable asbestos-containing materials, such as caulking, mastic or resilient floor tiles. However, demolition must be completed without causing the non-friable ACM to be rendered friable. Burning a building with any ACM is prohibited. Operations such as sanding, cutting, crushing, grinding, pneumatic jacking, etc. of ACM are not permitted. Recycling of building materials such as concrete, metal, or wood that are bonded or contaminated with ACM, e.g. glue, caulking, or mastic is also prohibited. If any of the non-friable asbestos containing materials are to be recycled and rendered friable after demolition (i.e. crushing mastic-coated concrete), these materials must be abated of all ACM prior to shipping offsite for recycling.

OSHA regulations regarding occupational exposure during demolition activities is still mandatory. OSHA 29 CFR 1926.1101 requires that workers performing construction-related activities be protected from asbestos fibers in excess of the permissible exposure limit of 0.1 f/cc of air. Contractors are must comply with applicable provisions of OSHA 29 CFR 1926.1101 during demolition and renovation activities. These OSHA provisions include, but are not limited to, PPE and respirators, personnel training, personal-exposure air monitoring, employee medical surveillance, wet removal methods, signage for regulated areas, etc.

10.0 Major & Minor Asbestos Spill Response Actions

If ACM is significantly damaged and the total quantity exceeds the regulatory trigger levels, the area is deemed a "Major Asbestos Spill." The area is consequently subject to the requirements in Reg. 8, Section III.T.1. – *Major Asbestos Spills*, as outlined below. Additional asbestos air or dust sampling should also be conducted within the remaining areas not directly impacted by the Major Asbestos Spill to determine if asbestos-containing dust/debris has spread to adjacent areas. If asbestos fibers are found within any other areas or on building contents, they should be included in the scope of professional abatement and decontamination. The following response actions must be followed per Colorado Reg. 8 when a Major Asbestos Spill occurs:

- Restrict access to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.
- Shut off or temporarily modify the air handling system to prevent the distribution of asbestos fibers to other areas.
- Immediately contact the Division by telephone, submit a notification in compliance with subsection III.E. (Notifications) and, if in an area of public access, apply for a permit in accordance with subsection III.G. (Permits).
- Be exempted from the requirements to have a certified Supervisor on-site at all times, until such time as the immediate danger has passed. Any cleanup or asbestos abatement that must occur after the immediate danger has passed shall be supervised by a person certified by the Division.
- Using certified Supervisors and certified Workers in accordance with section II. (Certification Requirements) of this Regulation, seal all openings between the contaminated and uncontaminated areas and establish none-detected air pressure within the contaminated area in accordance with paragraph III.J. (Air Cleaning and None-detected Pressure Requirements). This is to be accomplished using polyethylene sheeting to cover areas such as doorways, windows, elevator openings, corridor entrances, grills, drains, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, drapes, upholstery, and other non-clothing fabrics in the contaminated area, or discard these materials.
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all surfaces in the contaminated area.

- Discard all materials in accordance with subsection III.R. (Waste Handling).
- Following completion of subparagraph III.T.1.a. through III.T.1.i. above, comply with air monitoring requirements as described in subsection III.P. (Clearing Abatement Projects); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the area and
- Comply with any other measures deemed necessary by the Division to protect public health.

In the event of an asbestos spill involving less than or equal to the trigger levels, the building owner or contractor should take the following non-mandatory steps:

- Restrict entry to the area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.
- Shut off or temporarily modify the air handling system to prevent the distribution of fibers to other areas in the building.
- Seal all openings between the contaminated and uncontaminated areas. This is to be accomplished by using polyethylene sheeting to cover all areas such as windows, doorways, elevator openings, corridor entrances, drains, grills, grates, diffusers and skylights.
- HEPA vacuum or steam clean all carpets, draperies, upholstery and other non-clothing fabrics in the contaminated area, or discard all contaminated materials in accordance with subsection III.R. (Waste Handling).
- Launder or discard contaminated clothing in accordance with subsection III.R. (Waste Handling).
- HEPA vacuum or wet clean all non-fabric surfaces in the contaminated area.
- Following completion of subparagraphs III.T.2.a. through III.T.2.f. of Regulation 8, conduct air monitoring as described in paragraph III.P.3 of Regulation 8. (Final Clearance Air Monitoring and Sample Analyses); air samples shall be collected aggressively as described in 40 C.F.R. Part 763, Appendix A to Subpart E (EPA 1995), except that the air stream of the leaf blower shall not be directed at any friable ACM that remains in the work area.

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DS can provide an Asbestos Project Design as well as fulfill the Colorado Asbestos Project Manager requirements for any asbestos abatement project, as applicable below.

Project Design

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Project Manager

A *Project Manager* shall be used on all asbestos abatement projects in which the amount of friable asbestos-containing material to be abated exceeds 1,000 linear feet on pipes, or 3,000 square feet on other surfaces per CDPHE Regulation Number 8, Part B – Section III.B.6. An asbestos Project Manager on an abatement project shall be responsible for assessing that the project is conducted in accordance with Regulation 8, assessing that the Project Design is followed, assessing that the abatement project is cleared in accordance with Regulation 8, assessing that the asbestos waste generated on the project is properly manifested and disposed of in accordance with Regulation 8, and communicating these assessments to the building owner or GAC. Project Managers must have proof of Colorado certification as an asbestos Project Designer and Air Monitoring Specialist in accordance with Section II of CDPHE Regulation 8 as well as a minimum of one (1) year of experience supervising, overseeing or monitoring asbestos abatement projects. A 4-year college degree in industrial hygiene, a degree in environmental health with a major concentration in industrial hygiene, or the possession of a certified industrial hygienist (CIH) certificate given by the American Board of Industrial Hygiene (ABIH) may be substituted for the Colorado asbestos Air Monitoring Specialist course.

The GAC shall notify the building owner during bid proposals as to whether or not a project manager is required. Project managers shall be independent of the asbestos abatement contractor and work strictly on behalf of the building owner to the extent feasible, unless the abatement is being performed in-house. Project managers must sign the original copy of the abatement permit for the permit to be valid.

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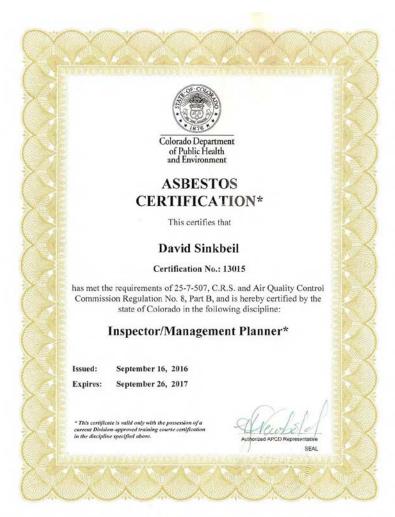
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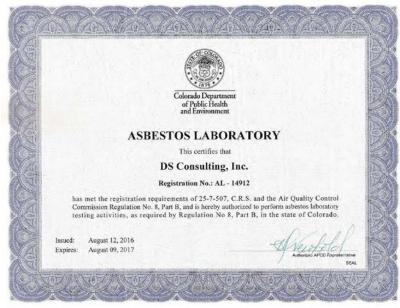
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APPENDIX A

INSPECTOR & FIRM ASBESTOS CERTIFICATES







Lead-Based Paint Inspection and XRF Testing Report

14451 Riverdale Rd, Brighton, Colorado 80602

Building M

Presented To:

Mr. John Dellaport Quantum Water & Environment 1746 Cole Blvd, Suite 340 Lakewood, CO 80401 720-626-6718 john@quantumwaterco.com

Performed & Prepared By:

Mr. Robert Neumann DS Environmental Consulting, Inc. 12477 W Cedar Dr, Ste 101 Lakewood, CO 80228 (720) 369 - 6609

Project Details:

Project Number: 15140-M Conducted: October 13, 2016



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APPENDIX A Inspector & Firm Lead Certificates

1.0 Introduction

On October 13, 2016, Mr. Rob Neumann with DS Environmental Consulting, Inc. (DS) performed a full lead-based paint (LBP) inspection and performed XRF testing to determine the presence of LBP on painted building components of the metal storage container located at 14451 Riverdale Rd, Bldg. L, Brighton, Colorado 80602.

The term "paint" means any liquid mixture, usually of solid pigment in a liquid vehicle, used as a decorative or protective coating. This includes, but is not limited to, primer, lacquer, polyurethane, wood stain, etc. The term "lead-based paint" means any paint having concentrations of lead greater than 1.0 mg/cm², which is also Colorado's action level.

The red painted metal exterior metals walls were tested for LBP. The one type of paint was found to be negative for LBP.

2.0 Scope of Work

The scope of the full LBP inspection included all areas of the storage container defined by the environmental consulting company as listed above. No garage or any out-building on the property were included in the scope of the inspection. The full LBP inspection did not constitute a hazard assessment.

3.0 Site Description

The structure is a small metal exterior and wood interior, storage magazine.

4.0 Certifications

Mr. Neumann and is a Colorado State Certified LBP Inspector; having EPA Accreditation #23292. DS Environmental Consulting, Inc. is a Colorado State Certified Lead Evaluation Firm, license #16918. Mr. Neumann is certified to operate the RMD LPA-1 XRF Lead Paint Spectrum Analyzer by the manufacturer (see Appendix A for certificates).

5.0 Equipment Information

LBP concentrations were obtained using a RMD Model LPA-1 X-ray Florescence (XRF) Lead Paint Spectrum Analyzer, Serial #3317, which is approved by the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) to determine the concentration of lead in paint.

The RMD LPA-1 XRF Lead Paint Spectrum Analyzer was calibrated according to the manufacturer's Performance Characteristic Sheet (PCS). The XRF was calibrated using the calibration standard block of known 1.0 mg/cm² lead content as well as a standard block of known 0.0 mg/cm² lead content. Three (3) calibration reading of each block were taken before the inspection began as well as after the inspection was completed.

6.0 Inspection & Testing Procedures

The LBP inspection and XRF testing were conducted by a State of Colorado accredited LBP Inspector qualified by experience, education, and training in approved LBP testing techniques. These procedures call for the visual inspection of the areas of concern and the collection of XRF readings for lead concentrations.

This inspection was performed in accordance with the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) guidelines for lead-hazard inspections, as well as the State of Colorado Air Quality Control Commission Regulation No. 19 for the Control of Lead Hazards. The EPA's 40 CFR Part 745 Final Rule (January 5, 2001) set standards for the identification of dangerous levels of lead. The standards identify when lead-based paint, lead-contaminated dust, and lead-contaminated soil are hazards. It also establishes residential dust clean-up levels (post-abatement clearance levels) and set dust and soil sampling requirements. The lead-based paint readings were collected by XRF analyzation for the purpose of determining lead concentrations as mg/cm².

7.0 Overview of Findings

The red painted metal exterior walls were tested for LBP. The one type of paint was found to be negative for LBP.

8.0 Conclusion & Recommendations

Since no LBP was found on the tested components, no further "lead safe" work practices are required when disturbing, removing or impacting the tested components. Additional testing is required if new materials are discovered or the scope of work changes.

9.0 Disclaimer & Limitations

This full inspection does not constitute a full lead-hazard assessment of the building.

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Regulated Building Materials Survey Report

14451 Riverdale Rd, Brighton, Colorado

Buildings A, B, C, D, E, F, G, H, I, J, K, L, & M

Presented To:

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Performed & Prepared By:

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Project Details:

Project Number: 15140.RBM

Conducted: September 28, 2016 and October 13, 2016

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APPENDIX A

Photographs of Typical RBMs Encountered

PROJECT OVERVIEW

1.0 Introduction

On October 13, 2016, Mr. David Sinkbeil with DS Environmental Consulting, Inc. (DS) conducted an inspection for suspect regulated building materials (RBM) within 13 commercial/storage buildings located at 14451 Riverdale Road, Brighton, Colorado.

The purpose of the regulated building materials inspection was an assessment of environmental concerns including universal waste products per the federal universal waste regulations set forth in 40 CFR part 273. The intent was to identify and catalog potentially hazardous RBMs that may be impacted by planned demolition activities at the Adams County Shooting Range site referenced above. Visual observation of all accessible interior spaces in 13 buildings at this location were observed for chemical storage, suspect PCBs, DEHPs, and mercury-containing devices. Please refer to DS Environmental Consulting's various Asbestos Inspection and Sampling Reports and Lead-Based Paint Inspection and XRF Analysis Reports for detailed analytical results, photographs and figures showing any asbestos and lead-based paint locations.

2.0 Scope of Work

The scope of the inspection included the 13 commercial/storage buildings and the north backstop at this location defined by the client referenced above.

3.0 Site Description

The site buildings are listed as follows:

- **Building A** Wood framed constructed single story commercial building with drywall interior walls and garage door
- Building B- Wood framed single story commercial building with drywall interior walls
- **Building C** Concrete masonry unit block constructed partial two-story commercial building with wood and drywall ceilings
- Building D- Wood framed single story storage building
- Building E- Wood framed single story storage building
- **Building F** Wood framed single story storage building
- **Building G** Wood framed single story storage building
- **Building H-** Wood framed single story commercial building with drywall interior walls
- **Building I** Wood framed single story storage building
- **Building J** Wood framed single story storage building
- Building K- Wood framed single story storage building
- Building L- Metal single story storage magazine
- **Building M** Metal single story storage magazine

4.0 Certifications

The limited inspection and report was conducted by Mr. David Sinkbeil with DS. Mr. Sinkbeil meets the professional certifications and qualifications for an *Industrial Hygienist*, as defined in Colorado State Statue section 24-30-1402, C.R.S. DS is a Colorado Department of Public Health and Environment (CDPHE)

certified Asbestos Consulting Firm, Registration No. 14912. DS is a Colorado State Certified Lead Evaluation Firm, license #16918.

5.0 Inspection Procedures

5.1 - Asbestos Containing Materials

The 13 full asbestos inspections were conducted by an Environmental Protection Agency (EPA) and CDPHE certified Asbestos Building Inspector. The inspection procedures included identifying and sampling suspect ACM within the 13 buildings to be demolished, submitting samples to an accredited laboratory for analysis, classifying the materials and assessing their condition, and compiling a final report detailing the inspection and the analytical results of the bulk-samples according to the guidelines published as EPA Final Rule: Title II of the Toxic Substances Control Act (TSCA), 15 USC, Sections 2641 through 2654 and in compliance with 40 CFR, Part 763 and CDPHE Regulation Number 8, Part B - Asbestos.

5.2 - Lead-based Paint

A lead based paint (LBP) screen was performed within each of the 13 buildings and the north metal backstop in accordance with the requirements of the State of Colorado's, Compliance Bulletin *Lead-Based Paint Abatement and Lead Waste Management*, revised January 2013. The State of Colorado's Department of Public Health and Environment (CDPHE) regulates the disposal of lead waste in Colorado. Lead-contaminated debris, not contaminated with other hazardous materials, is classified either as hazardous lead waste or as non-hazardous solid waste. The required analytical test to determine a material's waste classification is the Toxicity Characteristic Leachate Procedure (TCLP).

5.3 - Mercury-Containing Components

Mercury Containing Items - Fluorescent lamps, thermostats, mercury switches, manometers, natural gas meters, and other items can contain enough mercury to be classified as a special waste, and may therefore not be disposed of as regular construction debris. The mercury and mercury vapors associated with these products must be reclaimed prior to disposal of the material. A visual inspection for the presence of fluorescent lamps, thermostats and switches potentially containing mercury was performed within the areas of the 13 buildings to be demolished.

5.4 - PCB and Di-ethylhexl-pthalate (DEHP) Containing Items

Typical PCB-containing devices observed in the renovation areas of the building include high intensity discharge (HID) light ballasts. The only suspect DEHP-containing items are light ballasts manufactured between 1979 and 1991. Mercury is assumed to present in overhead fluorescent and HID lightbulbs, thermostats, gages, and batteries in emergency or safety lighting. A visual inspection for the presence of lighting ballasts and electrical equipment potentially containing PCB's or DEHP was performed within the 13 buildings to be demolished.

5.5 - Electronic Waste

Colorado Senate Bill 12-133, known as the "Electronic Recycling Jobs Act," prohibits the disposal of waste electronic devices (e-waste) in Colorado as of July 1, 2013. Electronics wastes from non-household sources must be managed as hazardous or universal wastes and are prohibited from disposal in solid waste landfills. Waste electronic devices include television sets, computer central processing units (CPUs), monitors, computer peripherals, printers, fax machines, laptops, notebooks, ultra-books, net books, electronic tablets, DVD players, VCRs, radios, stereos, video game consoles and video display devices with viewing screens greater than four inches diagonally.

5.6 - Radioactive Exit Signs and Smoke Detectors

Some self-illuminating emergency exit signs can contain radioactive tritium gas and are required to have a permanent label affixed to the sign that identifies it as containing radioactive material. In addition, the label should include the name of the manufacturer, the serial number, the product model number, and the quantity of tritium contained. It is illegal to abandon or dispose of radioactive signs, except by transferring them to the manufacturer or other storage/disposal facilities licensed by the U.S. Nuclear Regulatory Commission to accept them.

5.7 - Freon in Appliances

Some air conditioning units can contain Freon. It is illegal to dispose of appliances in landfills that contain Freon. DS recommends that any appliances with the potential to contain Freon be picked up by a legitimate and licensed recycler for processing.

6.0 Overview of Findings

Potentially Hazardous and Regulated Building Materials

DS performed an interior Hazardous and RBMs inventory per the site demolition plan provided by the client. No pesticides, herbicides or cleaning supplies were observed during the inspection and survey. RBMs include items and materials that are not permitted to be disposed of at a C&D landfill (i.e. fluorescent light bulbs containing mercury, liquid mercury in thermostats and gauges, light ballasts containing PCBs or DEHP, batteries, electronics and circuit boards containing metals, Freon, chemicals, oils, fuels, etc.). The approximate quantities of RBMs identified at the project site that are required to be removed and/or recycled prior to demolition include:

Building A

- Eight (8) 8' Fluorescent Light Ballasts
- Five (5) 4' Fluorescent Light Ballasts
- Ten (10) 4' Fluorescent Light Bulbs
- Two (2) Illuminated Emergency Exit Signs
- One (1) Exterior Air Conditioning Unit
- One (1) Wall-mounted Thermostat

Building B

- Fourteen (14) 4' Fluorescent Light Ballasts
- Twenty Eight (28) 4' Fluorescent Light Bulbs
- One (1) Exterior Air Conditioning Unit
- One (1) Wall-mounted Thermostat

Building C

- Two (2) 8' Fluorescent Light Ballasts
- Four (4) 8' Fluorescent Light Bulbs

- One (1) Wall Mounted Air Conditioner
- One (1) Wall-mounted Thermostat

Building H

- Eight (8) 4' Fluorescent Light Ballasts
- Sixteen (16) 4' Fluorescent Light Bulbs

Note: Mercury may be present in fluorescent lightbulbs, thermostats as well as safety and emergency lighting in the four buildings referenced above. PCBs and possibly DEHP-containing light ballasts may be located in the four buildings referenced above. Freon may be present in the external air conditioning units of the two buildings and in one wall-mounted air conditioning unit of the one building referenced above.

7.0 Conclusion & Recommendations

Asbestos – No friable asbestos-containing materials were discovered during the thirteen full asbestos inspections and bulk sampling referenced above. There was approximately four hundred (400) square feet of non-friable green 9"x 9" asbestos containing vinyl floor tile (at 2% Chrysotile asbestos) with black mastic (that was none detected for asbestos) located under ceramic tile in Building C. The floor tiles can be demolished in place as long as the tiles are not rendered friable during demolition activities. Please refer to the DS *Asbestos Inspection and Sampling Report* dated September 21, 2016 for Building C.

Lead – Lead based paint was not discovered in any of the thirteen buildings or at the north metal backstop at the site. Please refer to the DS *Lead-Based Paint Inspection and XRF Sampling Reports* for each building. A TCLP test was performed on the north shooting range wood backstop. The results of the TCLP test were 0.43 mg/L compared to the EPA's regulatory limit of 5.0 mg/L.

Mercury Containing Items – A total of approximately fifty-eight (58) fluorescent light tubes and three (3) wall-mounted thermostats were present within the 13 buildings. The fluorescent light tubes and thermostats must be removed from the building for proper recycling prior to building demolition. DS recommends that all potential mercury-containing building materials be assumed to contain mercury, manifested as such and picked up by a licensed hazardous-materials management company for proper labeling, transportation and disposal.

PCBs and DEHP – Twenty-eight (28) potential PCB and DEHP-containing lighting ballasts were present within the 13 buildings. All of the approximately twenty-eight ballasts labels should be checked for manufacturer-provided labels. Lighting ballasts and oil-filled capacitors manufactured after 1979 may have "NO PCB's" stamped on its casing. These are filled with oil which does not contain PCB's but may contain DEHP. Capacitors with date stamps prior to 1979 or no date stamps are assumed to contain PCB's. Lighting ballasts labeled as "No PCB's" are assumed to contain DEHP if the date stamp is illegible or non-existent. Electronic ballasts are not assumed to contain PCB's or DEHP. The ballasts must be removed and checked for proper recycling/incineration prior to demolition of the buildings.

Electronic Waste – DS did not observed any electronic devices in the demolition areas (e.g., wall-mounted television sets, central processing units (CPUs), computer monitors, printers, fax machines, and telephones). DS recommends that any e-waste discovered during demolition activities be reused whenever possible, or otherwise picked up by a legitimate and licensed recycler for processing.

Radioactive Exit Signs – Two (2) self-luminous exit signs were observed in Building A. It is illegal to abandon or dispose of these signs except by transferring them to the manufacturer or other storage/disposal facilities licensed by the U.S. Nuclear Regulatory Commission to accept them. DS recommends reusing the exit signs, or checking the labels and returning any radioactive-isotope containing exit signs to the original manufacturer(s).

Freon – Two (2) external air and one (1) wall-mounted air conditioning units were found in the 3 buildings referenced above. DS recommends that any appliances with Freon be picked up by a legitimate and licensed recycler for processing.

8.0 Disclaimer & Limitations

The activities outlined in this report were conducted in a manner consistent with a level of care and expertise exercised by members of the environmental consulting and industrial hygiene profession. All activities were performed in accordance with all applicable federal, state, and local regulations as well as generally accepted standards and professional practice. No warranty is either expressed or implied. DS assumes no responsibility or liability for error in public information utilized, statements from sources other than DS, or developments resulting from situations outside the scope of this project.

The details provided within this report outline the inspection activities on the date(s) indicated and should not be relied upon to represent conditions at a later date. The results do not include or apply to any other materials or areas within the structure that were not inspected, but may contain regulated building materials; including materials that may be hidden or inaccessible. Additional inspection and bulk-sampling activities would be required to determine if any other areas contain regulated materials.

This report has been prepared on behalf of and exclusively for use by the Client, with specific application to their project as discussed in the scope of work. The information contained in this report is intended as supplementary material for project planning and is not to be used as the scope of work for abatement/remediation activities, bidding or billing purposes. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. DS does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report.

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APPENDIX A PHOTOGRAPHS OF TYPICAL RBMs ENCOUNTERED



Typical lighting with potential Hg lightbulbs and PCB/DEHP ballasts



Typical emergency exit sign with potential radioactive isotope



Typical wall-mounted thermostat potentially containing mercury



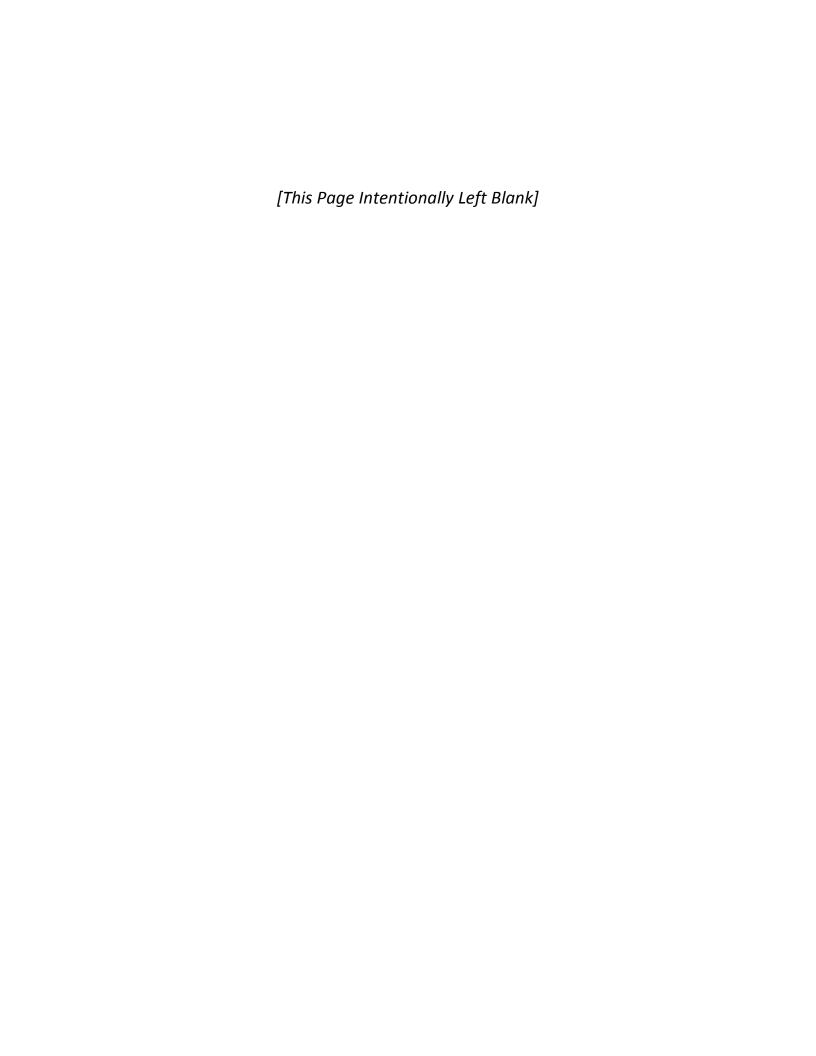
Typical light ballasts with potentially containing PCB or DEHP.

Note - bottom ballast reads "no PCBs" on manufacturer's label.



Air conditioning unit with potentially containing Freon

Appendix P - Calculations



APPENDIX - NORTH SHOOTING RANGE - CALCULATION OF EXCESS RISK SOIL VOLUME

			SHOOTING KAI		1	Grid		I
Sample Grid	Area (sq ft)	Sample Depth (inches)	Total Lead (mg/kg)	TCLP (mg/L)	Grid Depth (inches)	Depth (feet)	Grid Volume (cubic feet)	Grid Volume (bcy)
NRBB-1	1617.6	0	32		0	0	0.0	0.0
NRBB-2	2589.7	0	74		0	0	0.0	0.0
NRBB-3	2509.0	0	240		0	0	0.0	0.0
NRBB-4	2681.0	0	23		0	0	0.0	0.0
NRBB-5	1573.9	0	36	36	0	0	0.0	0.0
NRBB-6	2479.7	0	120		0	0	0.0	0.0
NRBB-7	2720.7	0	34		0	0	0.0	0.0
NRBB-8	1861.0	0	18		0	0	0.0	0.0
NRBB-9	1268.8	0	55		0	0	0.0	0.0
NRBB-10	2441.2	0	37		0	0	0.0	0.0
NRIB-1	757.9	0	32000	710	0	0	0.0	0.0
NRIB-1	757.9	6	52000		12	1	757.9	28.1
NRIB-2	751.3	0	34000	410	0	0	0.0	0.0
NRIB-2	751.3	18	28	450	18	1.5	1126.9	41.7
NRIB-3	716.7	0	30000	450	0	0	0.0	0.0
NRIB-3	716.7	18	310		18	1.5	1075.1	39.8
NRIB-4	726.1	0	42		0	0	0.0	0.0
NRIB-5	674.2	0	57		0	0	0.0	0.0
NRLB-1I	944.4	0	14		0	0	0.0	0.0
NRLB-1O	1610.9	0	8.7		0	0	0.0	0.0
NRLB-2I	845.4	0	38		0	0	0.0	0.0
NRLB-2O	1628.2	0	10		0	0	0.0	0.0
NRLB-3I	1049.9	0	58		0	0	0.0	0.0
NRLB-3O	1406.5	0	14		0	0	0.0	0.0
NRLB-4I	1073.2	0	100		0	0	0.0	0.0
NRLB-40	1412.4	0	480		0	0	0.0	0.0
NRLB-5I	1006.1	0	38		0	0	0.0	0.0
NRLB-50	1123.8	0	290		0	0	0.0	0.0
NRLB-5O	1123.8	3	35		0	0	0.0	0.0
NRLB-50	1123.8	0	86		0	0	0.0	0.0
NRLB-60	694.5	0	12		0	0	0.0	0.0
NRLB-7I	986.5	0	60		0	0	0.0	0.0
NRLB-70	912.7	0	7.6		0	0	0.0	0.0
NRLB-8I	300.6	0	14		0	0	0.0	0.0
NRLB-80	355.0	0	33		0	0	0.0	0.0
NRLB-9I	416.1	0	45		0	0	0.0	0.0
NRLB-90	244.8	0	36		0	0	0.0	0.0
	1							
NRLB-10I	1308.1	0	24		0	0	0.0	0.0
NRLB-100	1237.2	0	13		0	0	0.0	0.0
NRLB-11I	907.6	0	11		0	0	0.0	0.0
NRLB-110	1555.5	0	13		0	0	0.0	0.0
NRLB-12I	777.9	0	33		0	0	0.0	0.0
NRLB-12O	1883.2	0	20		0	0	0.0	0.0
NRLB-13I	567.9	0	17		0	0	0.0	0.0
NRLB-13O	2006.8	0	12		0	0	0.0	0.0
NRLB-14I	538.6	0	17		0	0	0.0	0.0
NRLB-14O	2079.0	0	11		0	0	0.0	0.0
NRRF-1	5732.0	0	81		0	0	0.0	0.0
NRRF-2	5758.1	0	14		0	0	0.0	0.0
NRRF-3	5442.8	0	10		0	0	0.0	0.0
NRRF-4	5529.4	0	10		0	0	0.0	0.0
NRRF-5	5478.1	0	29		0	0	0.0	0.0
NRRF-6	5599.2	0	24		0	0	0.0	0.0
NRRF-7	5441.3	0	68		0	0	0.0	0.0
NRRF-8	4704.4	0	170		0	0	0.0	0.0
NRRF-9	2708.1	0	18		0	0	0.0	0.0
		0	20		0	0	0.0	0.0

APPENDIX - NORTH SHOOTING RANGE - CALCULATION OF EXCESS RISK SOIL VOLUME

Sample Grid	Area (sq ft)	Sample Depth (inches)	Total Lead (mg/kg)	TCLP (mg/L)	Grid Depth (inches)	Grid Depth (feet)	Grid Volume (cubic feet)	Grid Volume (bcy)
NRSF-2	8511.2	0	14		0	0	0.0	0.0
NRSF-3	7743.6	0	22		0	0	0.0	0.0
NRSF-4	7870.5	0	22		0	0	0.0	0.0
NRSF-5	7997.5	0	23		0	0	0.0	0.0
NRSF-6	8194.9	0	14	-	0	0	0.0	0.0
NRSF-7	8321.9	0	18		0	0	0.0	0.0
NRSF-8	9358.3	0	25	-	0	0	0.0	0.0
NRSF-9	10420.9	0	35		0	0	0.0	0.0
NRSF-10	10000.0	0	27		0	0	0.0	0.0
NRSF-11	10000.0	0	6.9		0	0	0.0	0.0
NRSF-12	10000.0	0	11		0	0	0.0	0.0
NRSF-13	10000.0	0	18		0	0	0.0	0.0
NRSF-14	10000.0	0	27		0	0	0.0	0.0
NRSF-15	9985.5	0	21		0	0	0.0	0.0
NRSF-16	9694.8	0	42		0	0	0.0	0.0
NRSF-17	9912.8	0	26		0	0	0.0	0.0
NRSF-18	10000.0	0	18		0	0	0.0	0.0
NRSF-19	10000.0	0	13		0	0	0.0	0.0
NRSF-20	10000.0	0	30		0	0	0.0	0.0
NRSF-21	8292.7	0	39		0	0	0.0	0.0
NRSF-22	10274.1	0	36		0	0	0.0	0.0
NRSF-23	10568.4	0	29		0	0	0.0	0.0
NRSF-24	9909.0	0	37		0	0	0.0	0.0
	•						TOTAL (CY)	109.6

NOTES:

BOLD TEXT = Exceeds action level

bcy = bank cubic yards

EPA Industrial Regional Screening Level for Lead = 800 mg/kg

TCLP = Toxicity Characteristic Leaching Procedure (TCLP Limit = 5.0 mg/L)

mg/L = milligrams per liter

mg/kg = milligrams per kilogram

sq ft = square feet

(--) = Not Analyzed

APPENDIX - SOUTH SHOOTING RANGE - CALCULATION OF EXCESS RISK SOIL VOLUME

Sample Grid	Area (sq ft)	Sample Depth	Total Lead	TCLP (mg/L)	Grid Depth	Grid Depth	Grid Volume	Grid Volume
Sample driu	Area (sq it)	(inches)	(mg/kg)	TCLF (IIIg/L)	(inches)	(feet)	(cubic feet)	(bcy)
SRBB-1	2341.4	0	160		0	0	0.0	0.0
SRBB-2	2406.4	0	470		6	0.5	1203.2	44.6
SRBB-3	2419.8	0	13		0	0	0.0	0.0
SRBB-4	2354.9	0	37		0	0	0.0	0.0
SRBB-5	2344.1	0	980		6	0.5	1172.1	43.4
SRBB-6	2283.4	0	2400	6.5	6	0.5	1141.7	42.3
SRBB-6	2283.4	3	87		0	0	0.0	0.0
SRIB-1 SRIB-2	720.8 749.8	0	120 270		0	0	0.0	0.0
SRIB-3	749.8	0	180		0	0	0.0	0.0
SRIB-3	748.9	6	150		0	0	0.0	0.0
SRIB-4	734.6	0	340		0	0	0.0	0.0
SRIB-5	732.8	0	28		0	0	0.0	0.0
SRIB-6	632.5	0	1400		0	0	0.0	0.0
SRIB-6	632.5	3	34000		6	0.5	316.3	11.7
SRIB-7	744.7	0	25000	1100	0	0	0.0	0.0
SRIB-7	744.7	12	650		12	1	744.7	27.6
SRIB-8	751.1	0	130000	1300	0	0	0.0	0.0
SRIB-8	751.1	30	52		24	2	1502.1	55.6
SRIB-9	714.1	0	34000	1200	0	0	0.0	0.0
SRIB-9	714.1	30	110		24	2	1428.2	52.9
SRIB-10	731.2	0	86000	1500	0	0	0.0	0.0
SRIB-10 SRIB-11	731.2 726.7	18 0	980 170000		24 0	0	1462.4 0.0	54.2 0.0
SRIB-11 SRIB-11	726.7	24	40		24	2	1453.4	53.8
SRIB-12	681.5	0	18000		0	0	0.0	0.0
SRIB-12	681.5	30	180		24	2	1362.9	50.5
SRLB-1I	1635.8	0	80		0	0	0.0	0.0
SRLB-10	697.5	0	23		0	0	0.0	0.0
SRLB-2I	1282.3	0	940		6	0.5	641.2	23.7
SRLB-2O	816.0	0	20		0	0	0.0	0.0
SRLB-3I	591.3	0	61		0	0	0.0	0.0
SRLB-3O	1053.6	0	150		0	0	0.0	0.0
SRLB-4I	529.6	0	330		0	0	0.0	0.0
SRLB-4I	529.6	6	100		0	0	0.0	0.0
SRLB-4O	1504.1	0	13	7	6	0.5	752.1	27.9
SRLB-5I	1419.1	0	110		0	0	0.0	0.0
SRLB-50	1093.0	0	4000	64	0	0	0.0	0.0
SRLB-50	1093.0	15 0	21 37		18	1.5 0	1639.6	60.7
SRLB-60	1096.8 964.4	0	5400		0 6	0.5	0.0 482.2	0.0 17.9
SRLB-7I	1007.4	0	68		0	0.5	0.0	0.0
SRLB-70	1019.7	0	4600		6	0.5	509.8	18.9
SRLB-8I	1213.3	0	31		0	0	0.0	0.0
SRLB-8O	952.0	0	16		0	0	0.0	0.0
SRRF-1	3345.9	0	34		0	0	0.0	0.0
SRRF-2	4185.4	0	1200	18	0	0	0.0	0.0
SRRF-2	4185.4	3	220		6	0.5	2092.7	77.5
SRRF-3	4365.1	0	2400		0	0	0.0	0.0
SRRF-3	4365.1	3	770		6	0.5	2182.6	80.8
SRRF-4	4519.6	0	3900		0	0	0.0	0.0
SRRF-4	4519.6	3	110		6	0.5	2259.8	83.7
SRRF-5	3653.8	0	220		0	0	0.0	0.0
SRRF-6	5517.8 5517.8	0 6	2200 58	13 	0	0	0.0 2758.9	0.0 102.2
SRRF-6 SRRF-7	5645.3	0	58 55000	300	6 0	0.5 0	0.0	0.0
SRRF-7	5645.3	9	5800		12	1	5645.3	209.1
SRRF-8	5159.1	0	1800		0	0	0.0	0.0
SRRF-8	5159.1	3	500		6	0.5	2579.5	95.5
SRRF-9	5274.2	0	690		0	0	0.0	0.0
SRRF-9	5274.2	9	150	0.31	6	0.5	2637.1	97.7
SRRF-10	4825.5	0	350		0	0	0.0	0.0
SRRF-10	4825.5	6	350		0	0	0.0	0.0
STRF-1	6193.2	0	43		0	0	0.0	0.0
STRF-2	6294.5	0	52		0	0	0.0	0.0
SRSF-1	8975.0	0	17		0	0	0.0	0.0
SRSF-2	9936.0	0	80		0	0	0.0	0.0
SRSF-3	10154.1	0	220	0.32	0	0	0.0	0.0

APPENDIX - SOUTH SHOOTING RANGE - CALCULATION OF EXCESS RISK SOIL VOLUME

Sample Grid	Area (sq ft)	Sample Depth (inches)	Total Lead (mg/kg)	TCLP (mg/L)	Grid Depth (inches)	Grid Depth (feet)	Grid Volume (cubic feet)	Grid Volume (bcy)
SRSF-4COMPOSITE	10751.9	0	200		6	0.5	5375.9	199.1
SRSF-4NW	2144.2	0	150000	40	0	0	0.0	0.0
SRSF-4C	1877.1	0	240		0	0	0.0	0.0
SRSF-4NE	1861.0	0	160		0	0	0.0	0.0
SRSF-4SE	2607.4	0	120		0	0	0.0	0.0
SRSF-4E	2262.1	0	0.057		0	0	0.0	0.0
SRSF-5	10000.0	0	140		0	0	0.0	0.0
SRSF-6	10000.0	0	74		0	0	0.0	0.0
SRSF-7	9824.1	0	48		0	0	0.0	0.0
SRSF-8	14571.9	0	56		0	0	0.0	0.0
SRSF-9	13762.4	0	88		0	0	0.0	0.0
SEDIMENT BASIN	4458.8	0	6200		6	0.5	2229.4	82.6
•		·					TOTAL (CY)	1613.8

NOTES:

BOLD TEXT = Exceeds action level

bcy = bank cubic yards

EPA Residential Regional Screening Level for Lead = 400 mg/kg

NA = Not Analyzed

TCLP = Toxicity Characteristic Leaching Procedure (TCLP Limit = 5.0 mg/L)

mg/L = milligrams per liter

mg/kg = milligrams per kilogram

sq ft = square feet

(--) = Not Analyzed

2179

APPENDIX - BULLET PILES AND ADDITIONAL CHARACTERIZATION AREAS - CALCULATION OF EXCESS RISK SOIL VOLUME

Sample Grid	Area (sq ft)	Sample Depth (inches)	Total Lead (mg/kg)	TCLP (mg/L)	Grid Depth (inches)	Grid Depth (feet)	Grid Volume (cubic feet)	Grid Volume (bcy)	
Bullet Pile 1	1664	0			24	2	3328.0	123.3	See Note 1
Bullet Pile 2	100	0			6	0.5	50.0	1.9	See Note 1
Bullet Pile 3	250	0			6	0.5	125.0	4.6	See Note 1
ACA-1	8663	0	3100	0.21	6	0.5	4331.5	160.4	
ACA-2	8915	0	200	60	6	0.5	4457.5	165.1	
•	•		•				TOTAL (CY)	455.3	

NOTES:

1) Grid not sampled. Soil is assumed to exceed TCLP and/or Industrial RSL based on high concentration of bullets and elemental lead **BOLD TEXT** = Exceeds action level

ACA = Additional Characterization Area

bcy = bank cubic yards

EPA Industrial Regional Screening Level for Lead = 800 mg/kg

TCLP = Toxicity Characteristic Leaching Procedure (TCLP Limit = 5.0 mg/L)

mg/L = milligrams per liter

mg/kg = milligrams per kilogram

sq ft = square feet

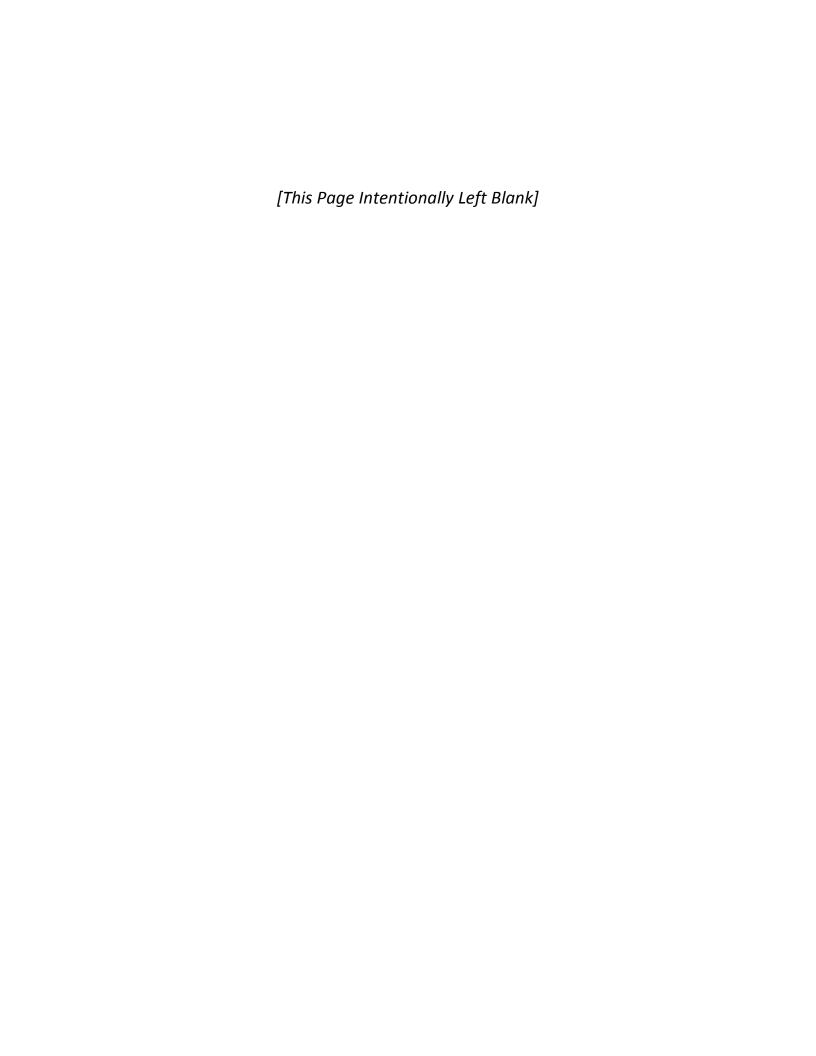
(--) = Not Analyzed

APPENDIX - SOUTH SHOOTING RANGE - OTHER SOIL VOLUME

SampleID	Area Name	Area_sqft	Vol (6")	CF	CY
SRBB-1	South Range Back Berm	2341.4	1170.689		
SRBB-3	South Range Back Berm	2419.8	1209.921		
SRBB-4	South Range Back Berm	2354.9	1177.427	3558.037	131.7792
SRIB-1	South Range Impact Berm	720.8	360.3982		
SRIB-2	South Range Impact Berm	749.8	374.8778		
SRIB-3	South Range Impact Berm	748.9	374.4732		
SRIB-4	South Range Impact Berm	734.6	367.2914		
SRIB-5	South Range Impact Berm	732.8	366.4033	1843.444	68.2757
SRLB-1I	South Range Lateral Berm	1635.8	817.8925		
SRLB-10	South Range Lateral Berm	697.5	348.7442		
SRLB-2O	South Range Lateral Berm	816.0	407.9986		
SRLB-3I	South Range Lateral Berm	591.3	295.6518		
SRLB-3O	South Range Lateral Berm	1053.6	526.7813		
SRLB-8I	South Range Lateral Berm	1213.3	606.656		
SRLB-8O	South Range Lateral Berm	952.0	476.0095		
SRLB-6I	South Range Lateral Berm	1096.8	548.4233		
SRLB-7I	South Range Lateral Berm	1007.4	503.7065		
SRLB-5I	South Range Lateral Berm	1419.1	709.5389		
SRLB-4I	South Range Lateral Berm	529.6	264.7798		
SRLB-40	South Range Lateral Berm	1504.1	752.0617	6258.244	231.7868
SRRF-5	South Range Range Floor	3653.8	1826.881		
SRRF-1	South Range Range Floor	3345.9	1672.936		
SRRF-10	South Range Range Floor	4825.5	2412.746	5912.563	218.9838

650.8255

Appendix Q - Water Well Search





GeoPlus Water Well Report

Satellite view

Target Property:

14451 Riverdale Road 14451 Riverdale Rd Brighton, Adams County, Colorado 80602

Prepared For:

Quantum Water Consulting

Order #: 59165 Job #: 127394 Date: 11/06/2015

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Target Property Summary
Locatable Database Findings
Waterwell Map
Report Summary of Locatable Sites
Environmental Records Definitions

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Target Property Summary

14451 Riverdale Road 14451 Riverdale Rd Brighton, Adams County, Colorado 80602

USGS Quadrangle: Brighton, CO Target Property Geometry: Area

Target Property Longitude(s)/Latitude(s):

(-104.86316, 39.957665), (-104.86551, 39.957681), (-104.86546, 39.961349), (-104.86083, 39.961341),(-104.86083, 39.960510), (-104.86149, 39.960091), (-104.86208, 39.959745), (-104.86246, 39.959334),(-104.86276, 39.958882), (-104.86297, 39.958257), (-104.86316, 39.957665)

County/Parish Covered:

Adams (CO)

Zipcode(s) Covered:

Brighton CO: 80601, 80602

State(s) Covered:

CO

Zone 1 areas have a predicted average indoor radon screening level greater than 4 pCi/L (picocuries per liter).

^{*}Target property is located in Radon Zone 1.

Locatable Database Findings

FEDERAL LISTING

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
NWIS	0.5000	0	0	1	4	NS	NS	5
SUB-TOTAL		0	0	1	4	0	0	5

Locatable Database Findings

STATE (CO) LISTING

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
DWRWELLS	0.5000	7	16	42	46	NS	NS	111
SUB-TOTAL		7	16	42	46	0	0	111

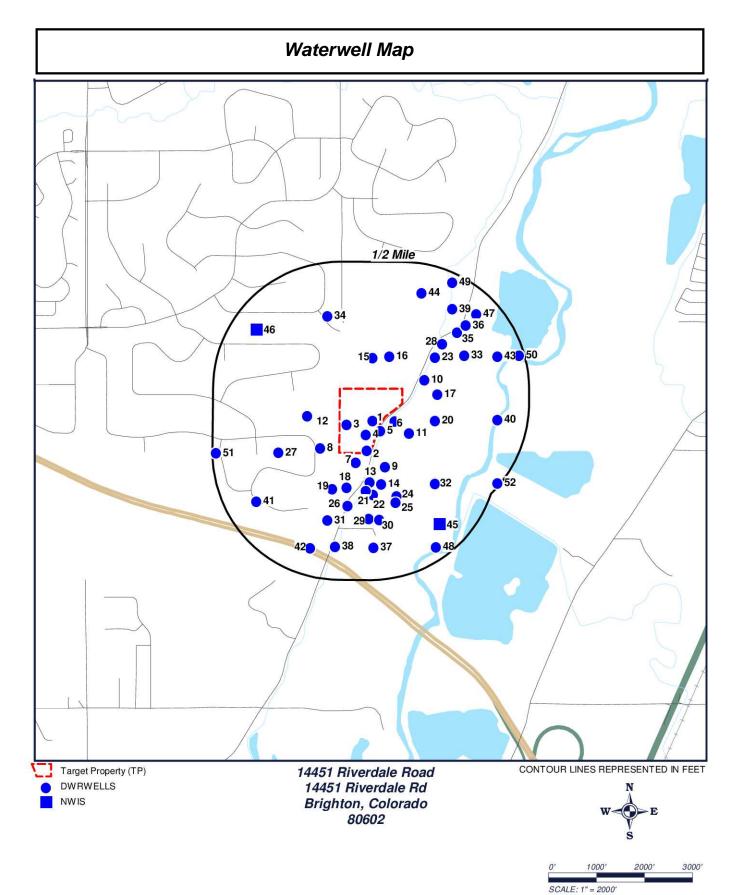
TOTAL	7	16	43	50	0	0	116

NOTES:

NS = NOT SEARCHED

TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

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Click here to access Satellite view

Report Summary of Locatable Sites

Map ID#	Database Name	Site ID#	Distance From Site	Site Name Address	PAGE #
1	DWRWELLS	0043576	0.001 N	MW-HO5	<u>8</u>
1	DWRWELLS	43576	0.001 N	MW-HO5	<u>9</u>
2	DWRWELLS	50673	0.001 NW	LH-112	<u>10</u>
<u>3</u>	DWRWELLS	50779	0.001 NW		<u>11</u>
4	DWRWELLS	0337121	0.001 N		12
<u>4</u>	DWRWELLS	337121	0.001 N		<u>13</u>
<u>5</u>	DWRWELLS	0528704D	0.02 N	MW-H05	<u>14</u>
<u>6</u>	DWRWELLS	487353	0.04 NE		<u>15</u>
<u>6</u>	DWRWELLS	525338	0.04 NE		<u>16</u>
<u>6</u>	DWRWELLS	0487353	0.04 NE		<u>17</u>
<u>6</u>	DWRWELLS	0525338	0.04 NE		<u>18</u>
<u>6</u>	DWRWELLS	0421008	0.03 NE		<u>19</u>
<u>6</u>	DWRWELLS	421008	0.03 NE		<u>20</u>
7	DWRWELLS	3666534B	0.04 SW		<u>21</u>
<u>8</u>	DWRWELLS	0474605	0.08 W		<u>22</u>
<u>8</u>	DWRWELLS	474605	0.08 W		<u>23</u>
9	DWRWELLS	9004640	0.08 SE		<u>24</u>
<u>10</u>	DWRWELLS	252156	0.1 NE		<u>25</u>
11	DWRWELLS	0043577	0.11 NE	MW-HO6	<u>26</u>
<u>11</u>	DWRWELLS	0528704E	0.11 NE	MW-H06	<u>27</u>
<u>11</u>	DWRWELLS	43577	0.11 NE	MW-HO6	<u>28</u>
<u>12</u>	DWRWELLS	51093	0.12 NW		<u>29</u>
<u>12</u>	DWRWELLS	3662301C	0.13 NW	MW-03	<u>30</u>
13	DWRWELLS	43954	0.13 S		<u>31</u>
<u>13</u>	DWRWELLS	50672	0.12 S	LH-108	<u>32</u>
<u>13</u>	DWRWELLS	0043575	0.13 S	MW-HO3 & MW-H04	<u>33</u>
<u>13</u>	DWRWELLS	0043954	0.13 S		<u>34</u>
<u>13</u>	DWRWELLS	43575	0.13 S	MW-HO3 & MW-H04	<u>35</u>
<u>14</u>	DWRWELLS	0538923	0.13 S		<u>36</u>
<u>14</u>	DWRWELLS	538923	0.13 S		<u>37</u>
<u>15</u>	DWRWELLS	0021753	0.13 N		<u>38</u>
<u>15</u>	NWIS	00207488	0.14 N	SC00106714CBA	<u>39</u>
<u>15</u>	DWRWELLS	9000482	0.13 N		<u>40</u>
<u>16</u>	DWRWELLS	21753	0.14 N		<u>41</u>
17	DWRWELLS	0528704G	0.14 NE	MW-H08	<u>42</u>
<u>18</u>	DWRWELLS	9004516	0.14 SW		<u>43</u>
<u>19</u>	DWRWELLS	0440319	0.15 SW		<u>44</u>
<u>19</u>	DWRWELLS	440319	0.15 SW		<u>45</u>
<u>20</u>	DWRWELLS	0043579	0.15 NE	MW-HO8	<u>46</u>
<u>20</u>	DWRWELLS	43579	0.15 NE	MW-HO8	<u>47</u>
<u>21</u>	DWRWELLS	0528704B	0.15 S	MW-H02	<u>48</u>

Report Summary of Locatable Sites

<u>22</u>	DWRWELLS	0528704C	0.17 S	MW-H04	<u>49</u>
<u></u>	DWRWELLS	51095	0.19 NE		<u>50</u>
<u>23</u>	DWRWELLS	0043578	0.19 NE	MW-HO7	<u>51</u>
<u>23</u>	DWRWELLS	0252156	0.19 NE		<u></u> <u>52</u>
<u>23</u>	DWRWELLS	43578	0.19 NE	MW-HO7	<u>53</u>
<u>24</u>	DWRWELLS	3654425H	0.2 SE	BH-108	<u>54</u>
<u>24</u>	DWRWELLS	3654425G	0.2 SE	BH-107	<u>55</u>
<u>24</u>	DWRWELLS	3654425A	0.21 SE	BH-101	<u>56</u>
<u>24</u>	DWRWELLS	3654425B	0.21 SE	BH-102	<u>57</u>
<u>24</u>	DWRWELLS	3654425C	0.2 SE	BH-103	<u>58</u>
<u>24</u>	DWRWELLS	3654425D	0.21 SE	BH-104	<u>59</u>
<u>24</u>	DWRWELLS	3654425E	0.21 SE	BH-105	<u>60</u>
<u>24</u>	DWRWELLS	3654425F	0.2 SE	BH-106	<u>61</u>
<u>24</u>	DWRWELLS	36544251	0.21 SE	BH-109	<u>62</u>
<u>24</u>	DWRWELLS	3654425J	0.21 SE	BH-110	<u>63</u>
<u>24</u>	DWRWELLS	3654425K	0.21 SE	BH-111	<u>64</u>
<u>24</u>	DWRWELLS	3654425M	0.2 SE	BH-113	<u>65</u>
<u>24</u>	DWRWELLS	3654425N	0.21 SE	BH-114	<u>66</u>
<u>24</u>	DWRWELLS	36544250	0.21 SE	BH-115	<u>67</u>
<u>24</u>	DWRWELLS	3654425P	0.19 SE	BH-117	<u>68</u>
<u>24</u>	DWRWELLS	3654425L	0.2 SE	BH-112	<u>69</u>
<u>25</u>	DWRWELLS	3654425Q	0.22 SE	BH-118	<u>70</u>
<u>26</u>	DWRWELLS	0531485A	0.21 SW	MW-H03	<u>71</u>
<u>27</u>	DWRWELLS	0454399B	0.24 W	TCF 6	<u>72</u>
<u>28</u>	DWRWELLS	0528704F	0.25 NE	MW-H07	<u>73</u>
<u>29</u>	NWIS	00207359	0.27 S	SC00106723BCA USGS 395714104514500	<u>74</u>
<u>29</u>	NWIS	00207360	0.27 S	SC00106723BCA1 RUSSELL PERRY	<u>75</u>
<u>29</u>	DWRWELLS	3647173D	0.26 S	MW-H02B	<u>76</u>
<u>30</u>	DWRWELLS	0312623D	0.27 S	AL-4	<u>77</u>
<u>31</u>	DWRWELLS	0464335A	0.28 SW	TCF 8	<u>78</u>
<u>31</u>	DWRWELLS	0520818B	0.28 SW	TCMD #8	<u>79</u>
<u>32</u>	DWRWELLS	52231	0.28 SE		80
<u>32</u>	DWRWELLS	0051831A	0.29 SE		<u>81</u>
<u>32</u>	DWRWELLS	52225	0.29 SE		<u>82</u>
<u>33</u>	DWRWELLS	0220289	0.29 NE		<u>83</u>
<u>33</u>	DWRWELLS	220289	0.29 NE		<u>84</u>
<u>34</u>	DWRWELLS	51094	0.3 N		<u>85</u>
<u>34</u>	DWRWELLS	3662301B	0.3 N	MW-02	<u>86</u>
<u>35</u>	DWRWELLS	0441119	0.32 NE		<u>87</u>
<u>35</u>	DWRWELLS	441119	0.32 NE		<u>88</u>
<u>36</u>	DWRWELLS	0485759	0.36 NE	BRIGHTON PIT	89

Report Summary of Locatable Sites

37 DWRWELLS 49258 0.38 S MW-HO2 92 37 DWRWELLS 0049574 0.38 S MW-HO2 92 37 DWRWELLS 0049258 0.38 S MW-HO2 94 38 DWRWELLS 0528704A 0.38 S MW-HO1 95 39 DWRWELLS 904232 0.38 NE 96 40 DWRWELLS 51829 0.39 E 97 40 DWRWELLS 0049257 0.39 E 98 40 DWRWELLS 049257 0.39 E 99 41 DWRWELLS 049257 0.39 E 99 41 DWRWELLS 049257 0.39 E 99 41 DWRWELLS 0464358B 0.39 SW TCF7 100 42 DWRWELLS 0620818A 0.39 SW TCF7 101 42 DWRWELLS 06520818A 0.39 SW TCMD#7 101 43 DWRWELLS 3661193D 0.4 NE HAMMER PIT 4	<u>36</u>	DWRWELLS	485759	0.36 NE	BRIGHTON PIT	<u>90</u>
37 DWRWELLS 0049258 0.38 S MW-HO2 94 38 DWRWELLS 0528704A 0.38 S MW-HO1 95 39 DWRWELLS 9004232 0.38 NE 96 40 DWRWELLS 9004232 0.38 NE 96 40 DWRWELLS 51829 0.39 E 97 40 DWRWELLS 0049257 0.39 E 98 40 DWRWELLS 49257 0.39 E 99 41 DWRWELLS 0464356B 0.39 SW TCF7 100 41 DWRWELLS 0529818A 0.39 SW TCMD #7 101 42 DWRWELLS 0643573 0.4 SW MW-HO1 102 42 DWRWELLS 3661193D 0.4 NE HAMMER PIT 4 104 43 DWRWELLS 3661193F 0.4 NE HAMMER PIT 6 105 43 DWRWELLS 3661193F 0.4 NE HAMMER PIT 6 106 45 DWRWELLS 30585925	<u>37</u>	DWRWELLS	49258	0.38 S		<u>91</u>
37 DWRWELLS 43574 0.38 S MW-HO2 94 38 DWRWELLS 0528704A 0.38 S MW-H01 95 39 DWRWELLS 9004232 0.38 NE 96 40 DWRWELLS 51829 0.39 E 92 40 DWRWELLS 049257 0.39 E 98 40 DWRWELLS 049257 0.39 E 98 41 DWRWELLS 0464356B 0.39 SW TCF 7 100 41 DWRWELLS 0464356B 0.39 SW TCMD #7 101 42 DWRWELLS 0464356B 0.39 SW TCMD #7 101 41 DWRWELLS 0620818A 0.39 SW TCMD #7 101 42 DWRWELLS 0645373 0.4 SW MW-HO1 103 43 DWRWELLS 3661193D 0.4 NE HAMMER PIT 4 104 43 DWRWELLS 3661193F 0.4 NE HAMMER PIT 6 106 43 DWRWELLS	<u>37</u>	DWRWELLS	0043574	0.38 S	MW-HO2	<u>92</u>
38 DWRWELLS 0528704A 0.38 S MW-H01 95 39 DWRWELLS 9004232 0.38 NE 96 40 DWRWELLS 51829 0.39 E 92 40 DWRWELLS 049257 0.39 E 98 40 DWRWELLS 049257 0.39 E 99 41 DWRWELLS 0464335B 0.39 SW TCF 7 100 41 DWRWELLS 0464335B 0.39 SW TCMD #7 101 42 DWRWELLS 045373 0.4 SW MW-H01 102 42 DWRWELLS 3661193D 0.4 NE HAMMER PIT 4 104 43 DWRWELLS 3661193F 0.4 NE HAMMER PIT 5 105 43 DWRWELLS 3661193F 0.4 NE HAMMER PIT 6 106 43 DWRWELLS 3661193F 0.4 NE HAMMER PIT 6 108 44 DWRWELLS 900655 0.4 NE 106 45 NWIS 000655	<u>37</u>	DWRWELLS	0049258	0.38 S		<u>93</u>
39 DWRWELLS 9004232 0.38 NE 96 40 DWRWELLS 51829 0.39 E 97 40 DWRWELLS 0049257 0.39 E 98 40 DWRWELLS 49257 0.39 E 99 41 DWRWELLS 0464335B 0.39 SW TCF7 100 41 DWRWELLS 0520815A 0.39 SW TCMD#7 101 42 DWRWELLS 0520815A 0.39 SW TCMD#7 101 42 DWRWELLS 0630373 0.4 SW MW-HO1 102 42 DWRWELLS 3661193D 0.4 NE HAMMER PIT 4 104 43 DWRWELLS 3661193E 0.4 NE HAMMER PIT 5 105 43 DWRWELLS 3661193F 0.4 NE HAMMER PIT 6 106 43 DWRWELLS 3685925 0.4 N 109 44 DWRWELLS 385925 0.4 N 109 44 DWRWELLS 385925 0.4 N	<u>37</u>	DWRWELLS	43574	0.38 S	MW-HO2	<u>94</u>
40 DWRWELLS 51829 0.39 E 98 40 DWRWELLS 0049257 0.39 E 98 40 DWRWELLS 49257 0.39 E 99 41 DWRWELLS 0464335B 0.39 SW TCF 7 100 42 DWRWELLS 052081BA 0.39 SW TCMD #7 101 42 DWRWELLS 0043573 0.4 SW MW-HO1 102 42 DWRWELLS 43573 0.4 SW MW-HO1 103 43 DWRWELLS 3661193D 0.4 NE HAMMER PIT 4 104 43 DWRWELLS 3661193F 0.4 NE HAMMER PIT 5 105 43 DWRWELLS 3661193F 0.4 NE HAMMER PIT 6 106 43 DWRWELLS 51828 0.4 NE 107 43 DWRWELLS 58525 0.4 N 109 44 DWRWELLS 385925 0.4 N 110 45 NWIS 00207352 0.4 SE SC00106723BCA USGS 111 47 DWRWELLS 9004319 0.43 N	<u>38</u>	DWRWELLS	0528704A	0.38 S	MW-H01	<u>95</u>
40 DWRWELLS 0049257 0.39 E 98 40 DWRWELLS 49257 0.39 E 98 41 DWRWELLS 0464335B 0.39 SW TCF7 100 41 DWRWELLS 052081BA 0.39 SW TCMD #7 101 42 DWRWELLS 0043573 0.4 SW MW-HO1 102 42 DWRWELLS 43573 0.4 SW MW-HO1 103 43 DWRWELLS 3661193D 0.4 NE HAMMER PIT 4 104 43 DWRWELLS 3661193E 0.4 NE HAMMER PIT 5 105 43 DWRWELLS 3661193F 0.4 NE HAMMER PIT 6 106 43 DWRWELLS 51828 0.4 NE 109 44 DWRWELLS 9365925 0.4 NE 109 44 DWRWELLS 385925 0.4 N 110 45 NWIS 00207352 0.4 SE SC00106723BCA USGS 111 47 DWRWELLS 904319 0.43 NE 112 47 DWRWELLS 51832 0.4	<u>39</u>	DWRWELLS	9004232	0.38 NE		<u>96</u>
40 DWRWELLS 49257 0.39 E 99 41 DWRWELLS 0464335B 0.39 SW TCF 7 100 41 DWRWELLS 0520818A 0.39 SW TCMD #7 101 42 DWRWELLS 0043573 0.4 SW MW-HO1 102 42 DWRWELLS 43573 0.4 SW MW-HO1 103 43 DWRWELLS 3661193D 0.4 NE HAMMER PIT 4 104 43 DWRWELLS 3661193F 0.4 NE HAMMER PIT 5 105 43 DWRWELLS 3661193F 0.4 NE HAMMER PIT 6 106 43 DWRWELLS 51828 0.4 NE HAMMER PIT 6 106 43 DWRWELLS 3085925 0.4 NE 109 44 DWRWELLS 385925 0.4 N 110 45 NWIS 00207352 0.4 SE SC00106723BCA USGS 111 46 NWIS 00207352 0.4 SE SC00206715ADB1 USGS 112	<u>40</u>	DWRWELLS	51829	0.39 E		<u>97</u>
41 DWRWELLS 0464335B 0.39 SW TCF 7 100 41 DWRWELLS 0520818A 0.39 SW TCMD #7 101 42 DWRWELLS 0043573 0.4 SW MW-HO1 102 42 DWRWELLS 43573 0.4 SW MW-HO1 103 43 DWRWELLS 3661193D 0.4 NE HAMMER PIT 4 104 43 DWRWELLS 3661193E 0.4 NE HAMMER PIT 5 105 43 DWRWELLS 3661193F 0.4 NE HAMMER PIT 6 106 43 DWRWELLS 51828 0.4 NE 107 43 DWRWELLS 9000655 0.4 NE 108 44 DWRWELLS 0385925 0.4 N 109 44 DWRWELLS 385925 0.4 N 110 45 NWIS 00207520 0.41 NW SC00106723BCA USGS 111 46 NWIS 00207520 0.41 NW SC00206715ADB1 USGS 1112 47 DWRWELLS 9004319 0.43 NE 113 48 DWRWELLS	<u>40</u>	DWRWELLS	0049257	0.39 E		<u>98</u>
41 DWRWELLS 0520818A 0.39 SW TCMD #7 101 42 DWRWELLS 0043573 0.4 SW MW-HO1 102 42 DWRWELLS 43573 0.4 SW MW-HO1 103 43 DWRWELLS 3661193D 0.4 NE HAMMER PIT 4 104 43 DWRWELLS 3661193F 0.4 NE HAMMER PIT 5 105 43 DWRWELLS 3661193F 0.4 NE HAMMER PIT 6 106 43 DWRWELLS 51828 0.4 NE HAMMER PIT 6 106 43 DWRWELLS 9000655 0.4 NE 108 44 DWRWELLS 385925 0.4 N 109 44 DWRWELLS 385925 0.4 N 110 45 NWIS 00207352 0.4 SE SC00106723BCA USGS 111 46 NWIS 00207520 0.41 NW SC020066715ADB1 USGS 112 47 DWRWELLS 904319 0.43 NE 113 48	<u>40</u>	DWRWELLS	49257	0.39 E		<u>99</u>
42 DWRWELLS 0043673 0.4 SW MW-HO1 102 42 DWRWELLS 43573 0.4 SW MW-HO1 103 43 DWRWELLS 3661193D 0.4 NE HAMMER PIT 4 104 43 DWRWELLS 3661193E 0.4 NE HAMMER PIT 5 105 43 DWRWELLS 3661193F 0.4 NE HAMMER PIT 6 106 43 DWRWELLS 51828 0.4 NE HAMMER PIT 6 106 43 DWRWELLS 9006655 0.4 NE 108 44 DWRWELLS 0365925 0.4 N 109 44 DWRWELLS 385925 0.4 N 110 45 NWIS 00207352 0.4 SE SC00106723BCA USGS 111 395753104612701 111 112 47 DWRWELLS 9004319 0.43 NE 113 48 DWRWELLS 90319 0.45 SE 114 48 DWRWELLS 5080 0.45 SE 115	<u>41</u>	DWRWELLS	0464335B	0.39 SW	TCF 7	<u>100</u>
42 DWRWELLS 43573 0.4 SW MW-HO1 103 43 DWRWELLS 3661193D 0.4 NE HAMMER PIT 4 104 43 DWRWELLS 3661193E 0.4 NE HAMMER PIT 5 105 43 DWRWELLS 3661193F 0.4 NE HAMMER PIT 6 106 43 DWRWELLS 51828 0.4 NE 107 43 DWRWELLS 9000655 0.4 NE 108 44 DWRWELLS 0385925 0.4 N 109 44 DWRWELLS 385925 0.4 N 110 45 NWIS 00207352 0.4 SE SC00106723BCA USGS 395713104512701 111 46 NWIS 00207520 0.41 NW SC00206715ADB1 USGS 395753104521601 112 47 DWRWELLS 51832 0.45 SE 114 48 DWRWELLS 50180 0.45 SE 115 48 DWRWELLS 50180 0.45 SE 116 49 DWRWELLS 3661633	<u>41</u>	DWRWELLS	0520818A	0.39 SW	TCMD #7	<u>101</u>
43 DWRWELLS 3661193D 0.4 NE HAMMER PIT 4 104 43 DWRWELLS 3661193E 0.4 NE HAMMER PIT 5 105 43 DWRWELLS 3661193F 0.4 NE HAMMER PIT 6 106 43 DWRWELLS 51828 0.4 NE 107 43 DWRWELLS 9000655 0.4 NE 108 44 DWRWELLS 0385925 0.4 N 109 44 DWRWELLS 385925 0.4 N 110 45 NWIS 00207352 0.4 SE SC00106723BCA USGS 395713104512701 111 46 NWIS 00207520 0.41 NW SC00206715ADB1 USGS 395753104521601 112 47 DWRWELLS 9004319 0.43 NE 113 48 DWRWELLS 51832 0.45 SE 114 48 DWRWELLS 50180 0.45 SE 115 49 DWRWELLS 3661633 0.48 NE 117 50 DWRWELLS 57116 0.4	<u>42</u>	DWRWELLS	0043573	0.4 SW	MW-HO1	<u>102</u>
43 DWRWELLS 3661193E 0.4 NE HAMMER PIT 5 105 43 DWRWELLS 3661193F 0.4 NE HAMMER PIT 6 106 43 DWRWELLS 51828 0.4 NE 107 43 DWRWELLS 9000655 0.4 NE 108 44 DWRWELLS 0385925 0.4 N 109 44 DWRWELLS 385925 0.4 N 110 45 NWIS 00207352 0.4 SE SC00106723BCA USGS 395713104512701 111 46 NWIS 00207520 0.41 NW SC00206715ADB1 USGS 395753104521601 112 47 DWRWELLS 9004319 0.43 NE 113 48 DWRWELLS 51832 0.45 SE 114 48 DWRWELLS 50180 0.45 SE 115 48 DWRWELLS 3661633 0.48 NE 117 50 DWRWELLS 57116 0.49 NE 118 50 DWRWELLS 57116 0.49 NE 120 52 DWRWELLS 51830 0.5 E 122	<u>42</u>	DWRWELLS	43573	0.4 SW	MW-HO1	<u>103</u>
43 DWRWELLS 3661193F 0.4 NE HAMMER PIT 6 106 43 DWRWELLS 51828 0.4 NE 107 43 DWRWELLS 9000655 0.4 NE 108 44 DWRWELLS 0385925 0.4 N 109 44 DWRWELLS 385925 0.4 N 110 45 NWIS 00207352 0.4 SE SC00106723BCA USGS 395713104512701 111 46 NWIS 00207520 0.41 NW SC00206715ADB1 USGS 395753104521601 112 47 DWRWELLS 9004319 0.43 NE 113 48 DWRWELLS 51832 0.45 SE 114 48 DWRWELLS 50180 0.45 SE 115 48 DWRWELLS 50180 0.45 SE 116 49 DWRWELLS 3661633 0.48 NE 117 50 DWRWELLS 57116 0.49 NE 118 50 DWRWELLS 564399A 0.49 W 120 52 DWRWELLS 51830 0.5 E 121 50 DWRWELL	<u>43</u>	DWRWELLS	3661193D	0.4 NE	HAMMER PIT 4	<u>104</u>
43 DWRWELLS 51828 0.4 NE 107 43 DWRWELLS 9000655 0.4 NE 108 44 DWRWELLS 0385925 0.4 N 109 44 DWRWELLS 385925 0.4 N 110 45 NWIS 00207352 0.4 SE SC00106723BCA USGS 395713104512701 111 46 NWIS 00207520 0.41 NW SC00206715ADB1 USGS 395753104521601 112 47 DWRWELLS 9004319 0.43 NE 113 48 DWRWELLS 51832 0.45 SE 114 48 DWRWELLS 50180 0.45 SE 116 49 DWRWELLS 50180 0.45 SE 116 49 DWRWELLS 3661633 0.48 NE 117 50 DWRWELLS 57116 0.49 NE 118 50 DWRWELLS 57116 0.49 NE 119 51 DWRWELLS 51830 0.5 E 121 52 DWRWELLS 5050179 0.5 E 122	<u>43</u>	DWRWELLS	3661193E	0.4 NE	HAMMER PIT 5	<u>105</u>
43 DWRWELLS 9000655 0.4 NE 108 44 DWRWELLS 0385925 0.4 N 109 44 DWRWELLS 385925 0.4 N 110 45 NWIS 00207352 0.4 SE SC00106723BCA USGS 395713104512701 111 46 NWIS 00207520 0.41 NW SC00206715ADB1 USGS 395753104521601 112 47 DWRWELLS 9004319 0.43 NE 113 48 DWRWELLS 51832 0.45 SE 114 48 DWRWELLS 50180 0.45 SE 116 49 DWRWELLS 50180 0.45 SE 116 49 DWRWELLS 3661633 0.48 NE 117 50 DWRWELLS 57116 0.49 NE 118 50 DWRWELLS 57116 0.49 NE 119 51 DWRWELLS 51830 0.5 E 121 52 DWRWELLS 51830 0.5 E 122	<u>43</u>	DWRWELLS	3661193F	0.4 NE	HAMMER PIT 6	<u>106</u>
44 DWRWELLS 0385925 0.4 N 109 44 DWRWELLS 385925 0.4 N 110 45 NWIS 00207352 0.4 SE SC00106723BCA USGS 395713104512701 111 46 NWIS 00207520 0.41 NW SC00206715ADB1 USGS 395753104521601 112 47 DWRWELLS 9004319 0.43 NE 113 48 DWRWELLS 51832 0.45 SE 114 48 DWRWELLS 0050180 0.45 SE 115 48 DWRWELLS 50180 0.45 SE 116 49 DWRWELLS 3661633 0.48 NE 117 50 DWRWELLS 0057116 0.49 NE 118 50 DWRWELLS 57116 0.49 NE 119 51 DWRWELLS 51830 0.5 E 121 52 DWRWELLS 51830 0.5 E 122	<u>43</u>	DWRWELLS	51828	0.4 NE		<u>107</u>
44 DWRWELLS 385925 0.4 N 110 45 NWIS 00207352 0.4 SE SC00106723BCA USGS 395713104512701 111 46 NWIS 00207520 0.41 NW SC00206715ADB1 USGS 395753104521601 112 47 DWRWELLS 9004319 0.43 NE 113 48 DWRWELLS 51832 0.45 SE 114 48 DWRWELLS 0050180 0.45 SE 115 48 DWRWELLS 50180 0.45 SE 116 49 DWRWELLS 3661633 0.48 NE 117 50 DWRWELLS 0057116 0.49 NE 118 50 DWRWELLS 57116 0.49 NE 119 51 DWRWELLS 51830 0.5 E 121 52 DWRWELLS 51830 0.5 E 122	<u>43</u>	DWRWELLS	9000655	0.4 NE		<u>108</u>
45 NWIS 00207352 0.4 SE SC00106723BCA USGS 395713104512701 111 46 NWIS 00207520 0.41 NW SC00206715ADB1 USGS 395753104521601 112 47 DWRWELLS 9004319 0.43 NE 113 48 DWRWELLS 51832 0.45 SE 114 48 DWRWELLS 0050180 0.45 SE 115 48 DWRWELLS 50180 0.45 SE 116 49 DWRWELLS 3661633 0.48 NE 117 50 DWRWELLS 0057116 0.49 NE 118 50 DWRWELLS 57116 0.49 NE 119 51 DWRWELLS 0454399A 0.49 W 120 52 DWRWELLS 51830 0.5 E 121 52 DWRWELLS 0050179 0.5 E 122	<u>44</u>	DWRWELLS	0385925	0.4 N		<u>109</u>
395713104512701 395713104512701 395753104521601 3957531045	<u>44</u>	DWRWELLS	385925	0.4 N		<u>110</u>
395753104521601 47 DWRWELLS 9004319 0.43 NE 113 48 DWRWELLS 51832 0.45 SE 114 48 DWRWELLS 0050180 0.45 SE 115 48 DWRWELLS 50180 0.45 SE 116 49 DWRWELLS 3661633 0.48 NE 117 50 DWRWELLS 0057116 0.49 NE 118 50 DWRWELLS 57116 0.49 NE 119 51 DWRWELLS 0454399A 0.49 W 120 52 DWRWELLS 51830 0.5 E 121 52 DWRWELLS 0050179 0.5 E 122	<u>45</u>	NWIS	00207352	0.4 SE		111
48 DWRWELLS 51832 0.45 SE 114 48 DWRWELLS 0050180 0.45 SE 115 48 DWRWELLS 50180 0.45 SE 116 49 DWRWELLS 3661633 0.48 NE 117 50 DWRWELLS 0057116 0.49 NE 118 50 DWRWELLS 57116 0.49 NE 119 51 DWRWELLS 0454399A 0.49 W 120 52 DWRWELLS 51830 0.5 E 121 52 DWRWELLS 0050179 0.5 E 122	<u>46</u>	NWIS	00207520	0.41 NW		112
48 DWRWELLS 0050180 0.45 SE 115 48 DWRWELLS 50180 0.45 SE 116 49 DWRWELLS 3661633 0.48 NE 117 50 DWRWELLS 0057116 0.49 NE 118 50 DWRWELLS 57116 0.49 NE 119 51 DWRWELLS 0454399A 0.49 W 120 52 DWRWELLS 51830 0.5 E 121 52 DWRWELLS 0050179 0.5 E 122	<u>47</u>	DWRWELLS	9004319	0.43 NE		<u>113</u>
48 DWRWELLS 50180 0.45 SE 116 49 DWRWELLS 3661633 0.48 NE 117 50 DWRWELLS 0057116 0.49 NE 118 50 DWRWELLS 57116 0.49 NE 119 51 DWRWELLS 0454399A 0.49 W 120 52 DWRWELLS 51830 0.5 E 121 52 DWRWELLS 0050179 0.5 E 122	<u>48</u>	DWRWELLS	51832	0.45 SE		<u>114</u>
49 DWRWELLS 3661633 0.48 NE 117 50 DWRWELLS 0057116 0.49 NE 118 50 DWRWELLS 57116 0.49 NE 119 51 DWRWELLS 0454399A 0.49 W 120 52 DWRWELLS 51830 0.5 E 121 52 DWRWELLS 0050179 0.5 E 122	<u>48</u>	DWRWELLS	0050180	0.45 SE		<u>115</u>
50 DWRWELLS 0057116 0.49 NE 118 50 DWRWELLS 57116 0.49 NE 119 51 DWRWELLS 0454399A 0.49 W 120 52 DWRWELLS 51830 0.5 E 121 52 DWRWELLS 0050179 0.5 E 122	<u>48</u>	DWRWELLS	50180	0.45 SE		<u>116</u>
50 DWRWELLS 57116 0.49 NE 119 51 DWRWELLS 0454399A 0.49 W 120 52 DWRWELLS 51830 0.5 E 121 52 DWRWELLS 0050179 0.5 E 122	<u>49</u>	DWRWELLS	3661633	0.48 NE		<u>117</u>
51 DWRWELLS 0454399A 0.49 W 120 52 DWRWELLS 51830 0.5 E 121 52 DWRWELLS 0050179 0.5 E 122	<u>50</u>	DWRWELLS	0057116	0.49 NE		<u>118</u>
52 DWRWELLS 51830 0.5 E 121 52 DWRWELLS 0050179 0.5 E 122	<u>50</u>	DWRWELLS	57116	0.49 NE		<u>119</u>
52 DWRWELLS 0050179 0.5 E 122	<u>51</u>	DWRWELLS	0454399A	0.49 W		<u>120</u>
	<u>52</u>	DWRWELLS	51830	0.5 E		<u>121</u>
<u>52</u> DWRWELLS 50179 0.5 E <u>123</u>	<u>52</u>	DWRWELLS	0050179	0.5 E		<u>122</u>
	<u>52</u>	DWRWELLS	50179	0.5 E		<u>123</u>

MAP ID# 1

Distance from Property: 0.00 mi. N

APPLICANT INFORMATION

RECEIPT #: 0043576 PERMIT #: 43576 NAME: MW-HO5 COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED SUBDIVISION: NOT REPORTED LOT: NOT REPORTED **BLOCK: NOT REPORTED** FILING: NOT REPORTED WELL USE: OTHER

WELL DEPTH: NOT REPORTED

WELL STATUS: PERMIT ISSUED; COMPLETION STATUS UNKNOWN

PERMIT ISSUED: 05/20/2004

PERMIT EXPIRATION DATE: 08/19/2004

PLUG & ABANDONED DATE: NOT REPORTED WELL CONSTRUCTED DATE: NOT REPORTED PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 6950 S POTOMAC ST STE 300

CENTENNIAL, 80401

COMMENTS NOT REPORTED

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MAP ID# 1

Distance from Property: 0.00 mi. N

APPLICANT INFORMATION

RECEIPT #: 43576
PERMIT #: 43576
NAME: MW-HO5
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL DEPTH: NOT REPORTED

WELL STATUS: PERMIT ISSUED; COMPLETION STATUS UNKNOWN

PERMIT ISSUED: 5/20/2004

PERMIT EXPIRATION DATE: 8/19/2004

PLUG & ABANDONED DATE: NOT REPORTED
WELL CONSTRUCTED DATE: NOT REPORTED
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED
OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 6950 S POTOMAC ST STE 300

CENTENNIAL, 80401

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 2

Distance from Property: 0.00 mi. NW

APPLICANT INFORMATION

RECEIPT #: 50673

PERMIT #: NAME: COUNTY: AQUIFER: BASIN:

SUBDIVISION:

LOT: BLOCK: FILING: WELL USE: WELL DEPTH: ' WELL STATUS:

PERMIT ISSUED:

PERMIT EXPIRATION DATE: PLUG & ABANDONED DATE: WELL CONSTRUCTED DATE: PUMP INSTALLED DATE: STATIC WATER LEVEL: OWNER WELL NAME:

ADDRESS:

COMMENTS

Back to Report Summary

MAP ID# 3

Distance from Property: 0.00 mi. NW

APPLICANT INFORMATION

RECEIPT #: 50779

PERMIT #: NAME: COUNTY: AQUIFER:

BASIN:

SUBDIVISION:

LOT: BLOCK: FILING: WELL USE: WELL DEPTH: '

WELL STATUS:

PERMIT ISSUED:

PERMIT EXPIRATION DATE: PLUG & ABANDONED DATE: WELL CONSTRUCTED DATE: PUMP INSTALLED DATE: STATIC WATER LEVEL: OWNER WELL NAME:

ADDRESS:

COMMENTS

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MAP ID# 4

Distance from Property: 0.00 mi. N

APPLICANT INFORMATION

RECEIPT #: 0337121
PERMIT #: 164204
NAME: NOT REPORTED
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: COMMERCIAL

WELL DEPTH: 400 '

WELL STATUS: WELL CONSTRUCTED

PERMIT ISSUED: 05/22/1992

PERMIT EXPIRATION DATE: **NOT REPORTED**PLUG & ABANDONED DATE: **NOT REPORTED**WELL CONSTRUCTED DATE: **10/05/1993**PUMP INSTALLED DATE: **10/07/1993**

STATIC WATER LEVEL: 185

OWNER WELL NAME: ADAMS COUNTY SHERIFF % LT HIBB

ADDRESS: 150 N 19TH AVE BRIGHTON, 80601

COMMENTS
NO PUMP TEST

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MAP ID# 4

Distance from Property: 0.00 mi. N

APPLICANT INFORMATION

RECEIPT #: 337121
PERMIT #: 164204
NAME: NOT REPORTED

COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: COMMERCIAL

WELL DEPTH: 400'

WELL STATUS: WELL CONSTRUCTED

PERMIT ISSUED: 5/22/1992

PERMIT EXPIRATION DATE: **NOT REPORTED**PLUG & ABANDONED DATE: **NOT REPORTED**

WELL CONSTRUCTED DATE: 10/5/1993
PUMP INSTALLED DATE: 10/7/1993

STATIC WATER LEVEL: 185

OWNER WELL NAME: ADAMS COUNTY SHERIFF % LT HIBBARD

ADDRESS: 150 N 19TH AVE BRIGHTON, 80601

COMMENTS
NO PUMP TEST

Back to Report Summary

MAP ID# 5

Distance from Property: 0.02 mi. N

APPLICANT INFORMATION

RECEIPT #: 0528704D PERMIT #: 259505 NAME: MW-H05 COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED SUBDIVISION: NOT REPORTED LOT: NOT REPORTED **BLOCK: NOT REPORTED** FILING: NOT REPORTED WELL USE: OTHER

WELL DEPTH: NOT REPORTED WELL STATUS: WELL CONSTRUCTED

PERMIT ISSUED: 9/28/2004

PERMIT EXPIRATION DATE: NOT REPORTED PLUG & ABANDONED DATE: NOT REPORTED

WELL CONSTRUCTED DATE: 6/16/2004 PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 6950 SOUTH POTOMAC ST STE 300

CENTENNIAL, 80112

COMMENTS NOT REPORTED

MAP ID# 6

Distance from Property: 0.04 mi. NE

APPLICANT INFORMATION

RECEIPT #: 487353

PERMIT #: NAME: COUNTY: AQUIFER:

BASIN:

SUBDIVISION:

LOT: BLOCK: FILING: WELL USE: WELL DEPTH: '

WELL STATUS:

PERMIT ISSUED:

PERMIT EXPIRATION DATE: PLUG & ABANDONED DATE: WELL CONSTRUCTED DATE: PUMP INSTALLED DATE: STATIC WATER LEVEL: OWNER WELL NAME:

ADDRESS:

COMMENTS

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MAP ID# 6

Distance from Property: 0.04 mi. NE

APPLICANT INFORMATION

RECEIPT #: 525338

PERMIT #: NAME: COUNTY: AQUIFER: BASIN:

SUBDIVISION:

LOT: BLOCK: FILING: WELL USE: WELL DEPTH: ' WELL STATUS:

PERMIT ISSUED:

PERMIT EXPIRATION DATE: PLUG & ABANDONED DATE: WELL CONSTRUCTED DATE: PUMP INSTALLED DATE: STATIC WATER LEVEL: OWNER WELL NAME:

ADDRESS:

COMMENTS

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MAP ID# 6

Distance from Property: 0.04 mi. NE

APPLICANT INFORMATION

RECEIPT #: 0487353 PERMIT #: 239546 NAME: NOT REPORTED COUNTY: ADAMS

AQUIFER: ARAPAHOE BASIN: NOT REPORTED SUBDIVISION: NOT REPORTED

LOT: NOT REPORTED **BLOCK: NOT REPORTED** FILING: NOT REPORTED WELL USE: DOMESTIC WELL DEPTH: 0'

WELL STATUS: PERMIT ISSUED; COMPLETION STATUS UNKNOWN

PERMIT ISSUED: 03/22/2002

PERMIT EXPIRATION DATE: 03/22/2004

PLUG & ABANDONED DATE: NOT REPORTED WELL CONSTRUCTED DATE: NOT REPORTED PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED

OWNER WELL NAME: MCALEXANDER GREGG & LISA

ADDRESS: 5925 E 124TH WAY BRIGHTON, 80602

COMMENTS

PRE 72 LOT CREATION. NNT KA 4% REPLACEMENT. MTT 03/08/02

MAP ID# 6

Distance from Property: 0.04 mi. NE

APPLICANT INFORMATION

RECEIPT #: 0525338 PERMIT #: 258253 NAME: NOT REPORTED

COUNTY: ADAMS BASIN: NOT REPORTED

AQUIFER: ALL UNNAMED AQUIFERS

SUBDIVISION: NOT REPORTED LOT: NOT REPORTED **BLOCK: NOT REPORTED** FILING: NOT REPORTED WELL USE: DOMESTIC

WELL STATUS: WELL CONSTRUCTED

PERMIT ISSUED: 07/20/2004

WELL DEPTH: 300'

PERMIT EXPIRATION DATE: 07/20/2006

PLUG & ABANDONED DATE: NOT REPORTED WELL CONSTRUCTED DATE: 10/06/2004 PUMP INSTALLED DATE: 10/11/2004

STATIC WATER LEVEL: 81

OWNER WELL NAME: MCALEXANDER GREGG & LISA

ADDRESS: 5925 E 124TH WAY BRIGHTON, 80602

COMMENTS NOT REPORTED

MAP ID# 6

Distance from Property: 0.03 mi. NE

APPLICANT INFORMATION

RECEIPT #: 0421008
PERMIT #: 206490
NAME: NOT REPORTED

COUNTY: ADAMS
AQUIFER: ARAPAHOE
BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED

LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: DOMESTIC

WELL DEPTH: **NOT REPORTED**WELL STATUS: **NOT REPORTED**PERMIT ISSUED: **11/13/1997**

PERMIT EXPIRATION DATE: 11/13/1999

PLUG & ABANDONED DATE: NOT REPORTED WELL CONSTRUCTED DATE: NOT REPORTED PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: MAJORS THOMAS

ADDRESS: 4205 GRAY ST

WHEATRIDGE, 80212

COMMENTS
NOT REPORTED

Back to Report Summary

Order# 59165 Job# 127394 19 of 125

MAP ID# 6

Distance from Property: 0.03 mi. NE

APPLICANT INFORMATION

RECEIPT #: 421008
PERMIT #: 206490
NAME: NOT REPORTED
COUNTY: ADAMS

AQUIFER: ARAPAHOE
BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED

LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: DOMESTIC

WELL DEPTH: **NOT REPORTED**WELL STATUS: **NOT REPORTED**PERMIT ISSUED: **11/13/1997**

PERMIT EXPIRATION DATE: 11/13/1999

PLUG & ABANDONED DATE: NOT REPORTED
WELL CONSTRUCTED DATE: NOT REPORTED
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED
OWNER WELL NAME: MAJORS THOMAS

ADDRESS: 4205 GRAY ST

WHEATRIDGE, 80212

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 7

Distance from Property: 0.04 mi. SW

APPLICANT INFORMATION

RECEIPT #: 3666534B
PERMIT #: 78505
NAME: NOT REPORTED

COUNTY: ADAMS

AQUIFER: LOWER ARAPAHOE
BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED

WELL DEPTH: NOT REPORTED
WELL STATUS: WELL CONSTRUCTED

PERMIT ISSUED: 9/26/2014

WELL USE: DOMESTIC

PERMIT EXPIRATION DATE: **NOT REPORTED**PLUG & ABANDONED DATE: **NOT REPORTED**

WELL CONSTRUCTED DATE: 9/15/1976
PUMP INSTALLED DATE: 9/16/1976
STATIC WATER LEVEL: NOT REPORTED

OWNER WELL NAME: MCPHERSON SCOTT & ANGELA

ADDRESS: **NOT REPORTED NOT REPORTED**,

COMMENTS

PERMIT COPY RNT D & FWD D TO 14300 RIVERDALE RD. BRIGHTON 80602 10-7-14 SVJ

Back to Report Summary

MAP ID# 8

Distance from Property: 0.08 mi. W

APPLICANT INFORMATION

RECEIPT#: 0474605
PERMIT #: 55804
NAME: NOT REPORTED

COUNTY: ADAMS

AQUIFER: LARAMIE FOX HILLS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED

WELL USE: INDUSTRIAL WELL DEPTH: 1104'

WELL STATUS: WELL CONSTRUCTED

PERMIT ISSUED: 05/24/2001

PERMIT EXPIRATION DATE: 05/24/2002

PLUG & ABANDONED DATE: NOT REPORTED

WELL CONSTRUCTED DATE: 07/17/2001 PUMP INSTALLED DATE: 08/06/2001

STATIC WATER LEVEL: 844

OWNER WELL NAME: TODD CREEK FARMS METRO DIST NO

ADDRESS: PO BOX 490

BRIGHTON, 80601

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 8

Distance from Property: 0.08 mi. W

APPLICANT INFORMATION

RECEIPT #: 474605

PERMIT #: NAME: COUNTY: AQUIFER: BASIN:

SUBDIVISION:

LOT:
BLOCK:
FILING:
WELL USE:
WELL DEPTH: '
WELL STATUS:
PERMIT ISSUED:

PERMIT EXPIRATION DATE: PLUG & ABANDONED DATE: WELL CONSTRUCTED DATE:

PUMP INSTALLED DATE: STATIC WATER LEVEL: OWNER WELL NAME:

ADDRESS:

COMMENTS

Back to Report Summary

MAP ID# 9

Distance from Property: 0.08 mi. SE

APPLICANT INFORMATION

RECEIPT #: 9004640

PERMIT #: NAME: COUNTY: AQUIFER: BASIN:

SUBDIVISION:

LOT:
BLOCK:
FILING:
WELL USE:
WELL DEPTH: '
WELL STATUS:
PERMIT ISSUED:

PERMIT EXPIRATION DATE: PLUG & ABANDONED DATE: WELL CONSTRUCTED DATE:

PUMP INSTALLED DATE: STATIC WATER LEVEL: OWNER WELL NAME:

ADDRESS:

COMMENTS

MAP ID# 10

Distance from Property: 0.10 mi. NE

APPLICANT INFORMATION

RECEIPT #: 252156 PERMIT #: 138802 NAME: NOT REPORTED

BASIN: NOT REPORTED

COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

SUBDIVISION: NOT REPORTED LOT: NOT REPORTED **BLOCK: NOT REPORTED** FILING: NOT REPORTED WELL USE: DOMESTIC

WELL STATUS: WELL CONSTRUCTED

PERMIT ISSUED: 3/8/1985

WELL DEPTH: 300'

PERMIT EXPIRATION DATE: NOT REPORTED PLUG & ABANDONED DATE: NOT REPORTED

WELL CONSTRUCTED DATE: 3/23/1985 PUMP INSTALLED DATE: 3/23/1985

STATIC WATER LEVEL: 120

OWNER WELL NAME: AGGREGATE RESC

ADDRESS: NOT REPORTED **DENVER, 80212**

COMMENTS NOT REPORTED

MAP ID# 11

Distance from Property: 0.11 mi. NE

APPLICANT INFORMATION

RECEIPT #: 0043577 PERMIT #: 43577 NAME: MW-HO6 COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED SUBDIVISION: NOT REPORTED LOT: NOT REPORTED **BLOCK: NOT REPORTED** FILING: NOT REPORTED WELL USE: OTHER

WELL DEPTH: NOT REPORTED WELL STATUS: WELL ABANDONED

PERMIT ISSUED: 05/20/2004

PERMIT EXPIRATION DATE: 08/19/2004

PLUG & ABANDONED DATE: NOT REPORTED WELL CONSTRUCTED DATE: NOT REPORTED PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 6950 S POTOMAC ST STE 300

CENTENNIAL, 80401

COMMENTS NOT REPORTED

MAP ID# 11

Distance from Property: 0.11 mi. NE

APPLICANT INFORMATION

RECEIPT #: 0528704E
PERMIT #: 259507
NAME: MW-H06
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL DEPTH: **NOT REPORTED**WELL STATUS: **WELL CONSTRUCTED**

PERMIT ISSUED: 9/28/2004

PERMIT EXPIRATION DATE: **NOT REPORTED**PLUG & ABANDONED DATE: **NOT REPORTED**

WELL CONSTRUCTED DATE: 5/26/2004
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED
OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 6950 SOUTH POTOMAC ST STE 300

CENTENNIAL, 80112

COMMENTS
NOT REPORTED

Back to Report Summary

Order# 59165 Job# 127394 27 of 125

MAP ID# 11

Distance from Property: 0.11 mi. NE

APPLICANT INFORMATION

RECEIPT #: 43577
PERMIT #: 43577
NAME: MW-HO6
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL DEPTH: **NOT REPORTED**WELL STATUS: **WELL ABANDONED**

PERMIT ISSUED: 5/20/2004

PERMIT EXPIRATION DATE: 8/19/2004

PLUG & ABANDONED DATE: NOT REPORTED
WELL CONSTRUCTED DATE: NOT REPORTED
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED
OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 6950 S POTOMAC ST STE 300

CENTENNIAL, 80401

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 12

Distance from Property: 0.12 mi. NW

APPLICANT INFORMATION

RECEIPT #: 51093

PERMIT #: NAME: COUNTY: AQUIFER: BASIN:

SUBDIVISION:

LOT: BLOCK: FILING: WELL USE: WELL DEPTH:

WELL STATUS: PERMIT ISSUED:

PERMIT EXPIRATION DATE:

PLUG & ABANDONED DATE:
WELL CONSTRUCTED DATE:

PUMP INSTALLED DATE: STATIC WATER LEVEL: OWNER WELL NAME:

ADDRESS:

COMMENTS

Back to Report Summary

MAP ID# 12

Distance from Property: 0.13 mi. NW

APPLICANT INFORMATION

RECEIPT #: 3662301C
PERMIT #: 292768
NAME: MW-03
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL STATUS: WELL CONSTRUCTED

PERMIT ISSUED: 10/29/2013

WELL DEPTH: 15'

PERMIT EXPIRATION DATE: **NOT REPORTED**PLUG & ABANDONED DATE: **NOT REPORTED**WELL CONSTRUCTED DATE: **12/17/2012**PUMP INSTALLED DATE: **NOT REPORTED**

STATIC WATER LEVEL: 9

OWNER WELL NAME: TODD CREEK VILLAGE METROPOLITAN DIST

ADDRESS: **NOT REPORTED NOT REPORTED**,

COMMENTS
NOT REPORTED

Back to Report Summary

Order# 59165 Job# 127394 30 of 125

MAP ID# 13

Distance from Property: 0.13 mi. S

APPLICANT INFORMATION

RECEIPT #: 43954
PERMIT #: 43954
NAME: NOT REPORTED

COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL DEPTH: NOT REPORTED

WELL STATUS: PERMIT ISSUED; COMPLETION STATUS UNKNOWN

PERMIT ISSUED: 8/24/2004

PERMIT EXPIRATION DATE: 11/21/2004

PLUG & ABANDONED DATE: NOT REPORTED
WELL CONSTRUCTED DATE: NOT REPORTED
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED
OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 6950 S POTOMAC ST STE 300

CENTENNIAL, 80401

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 13

Distance from Property: 0.12 mi. S

APPLICANT INFORMATION

RECEIPT #: 50672

PERMIT #: NAME: COUNTY:

AQUIFER:

BASIN: SUBDIVISION:

LOT:
BLOCK:
FILING:
WELL USE:
WELL DEPTH: '

WELL STATUS: PERMIT ISSUED:

PERMIT EXPIRATION DATE: PLUG & ABANDONED DATE: WELL CONSTRUCTED DATE:

PUMP INSTALLED DATE: STATIC WATER LEVEL: OWNER WELL NAME:

ADDRESS:

COMMENTS

MAP ID# 13

Distance from Property: 0.13 mi. S

APPLICANT INFORMATION

RECEIPT #: **0043575**PERMIT #: **43575**

NAME: MW-HO3 & MW-H04

COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL DEPTH: NOT REPORTED

WELL STATUS: PERMIT ISSUED; COMPLETION STATUS UNKNOWN

PERMIT ISSUED: 05/20/2004

PERMIT EXPIRATION DATE: 08/19/2004

PLUG & ABANDONED DATE: NOT REPORTED WELL CONSTRUCTED DATE: NOT REPORTED PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 6950 S POTOMAC ST STE 300

CENTENNIAL, 80401

COMMENTS

DRILLING WILL BE ON 5-26-04. ADB 5-26-04

Back to Report Summary

MAP ID# 13

Distance from Property: 0.13 mi. S

APPLICANT INFORMATION

RECEIPT #: 0043954 PERMIT #: 43954 NAME: NOT REPORTED

COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED SUBDIVISION: NOT REPORTED LOT: NOT REPORTED **BLOCK: NOT REPORTED** FILING: NOT REPORTED WELL USE: OTHER

WELL DEPTH: NOT REPORTED

WELL STATUS: PERMIT ISSUED; COMPLETION STATUS UNKNOWN

PERMIT ISSUED: 08/24/2004

PERMIT EXPIRATION DATE: 11/21/2004

PLUG & ABANDONED DATE: NOT REPORTED WELL CONSTRUCTED DATE: NOT REPORTED PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 6950 S POTOMAC ST STE 300

CENTENNIAL, 80401

COMMENTS NOT REPORTED

MAP ID# 13

Distance from Property: 0.13 mi. S

APPLICANT INFORMATION

RECEIPT #: **43575**PERMIT #: **43575**

NAME: MW-HO3 & MW-H04

COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL DEPTH: NOT REPORTED

WELL STATUS: PERMIT ISSUED; COMPLETION STATUS UNKNOWN

PERMIT ISSUED: 5/20/2004

PERMIT EXPIRATION DATE: 8/19/2004

PLUG & ABANDONED DATE: NOT REPORTED
WELL CONSTRUCTED DATE: NOT REPORTED
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED
OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 6950 S POTOMAC ST STE 300

CENTENNIAL, 80401

COMMENTS

DRILLING WILL BE ON 5-26-04. ADB 5-26-04

Back to Report Summary

MAP ID# 14

Distance from Property: 0.13 mi. S

APPLICANT INFORMATION

RECEIPT #: 0538923 PERMIT #: 264186 NAME: NOT REPORTED

BASIN: NOT REPORTED

COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

SUBDIVISION: NOT REPORTED LOT: NOT REPORTED **BLOCK: NOT REPORTED** FILING: NOT REPORTED WELL USE: DOMESTIC

WELL STATUS: WELL CONSTRUCTED

PERMIT ISSUED: 07/01/2005

WELL DEPTH: 315'

PERMIT EXPIRATION DATE: 07/01/2007

PLUG & ABANDONED DATE: NOT REPORTED WELL CONSTRUCTED DATE: 10/03/2006 PUMP INSTALLED DATE: 10/10/2006

STATIC WATER LEVEL: 75

OWNER WELL NAME: RENSLOW ROY & CHARMAYNE

ADDRESS: 14331 RIVERDALE RD BRIGHTON, 80602

COMMENTS NOT REPORTED

Back to Report Summary

MAP ID# 14

Distance from Property: 0.13 mi. S

APPLICANT INFORMATION

RECEIPT #: 538923

PERMIT #: NAME: COUNTY: AQUIFER: BASIN:

SUBDIVISION:

LOT:
BLOCK:
FILING:
WELL USE:
WELL DEPTH: '
WELL STATUS:
PERMIT ISSUED:

PERMIT EXPIRATION DATE: PLUG & ABANDONED DATE: WELL CONSTRUCTED DATE: PUMP INSTALLED DATE:

STATIC WATER LEVEL:
OWNER WELL NAME:

ADDRESS:

COMMENTS

Back to Report Summary

MAP ID# 15

Distance from Property: 0.13 mi. N

APPLICANT INFORMATION

RECEIPT #: 0021753
PERMIT #: 2950
NAME: NOT REPORTED

COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: STOCK

WELL DEPTH: **NOT REPORTED**WELL STATUS: **APPLICATION DENIED**

PERMIT ISSUED: 06/08/1972

PERMIT EXPIRATION DATE: NOT REPORTED PLUG & ABANDONED DATE: NOT REPORTED WELL CONSTRUCTED DATE: NOT REPORTED PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: GATES CYCLO INC.

ADDRESS: NOT REPORTED

BRIGHTON, 80601

COMMENTS
NOT REPORTED

United States Geological Survey National Water Information System (NWIS)

MAP ID# 15

Distance from Property: 0.14 mi. N

REPORTING AGENCY: US GEOLOGICAL SURVEY

SITE NUMBER: 395748104514401 STATION NAME: SC00106714CBA

SITE TYPE: WELL

LATITUDE: **39.963317680** LONGITUDE: -104.862752400

DATE DRILLED: 1977-03-31 WELL DEPTH: 1020 FEET HOLE DEPTH: NOT REPORTED LOCAL AQUIFER: NOT REPORTED

MAP ID# 15

Distance from Property: 0.13 mi. N

APPLICANT INFORMATION

RECEIPT #: 9000482

PERMIT #: NAME: COUNTY: AQUIFER: BASIN:

SUBDIVISION:

LOT:
BLOCK:
FILING:
WELL USE:
WELL DEPTH: '
WELL STATUS:

PERMIT ISSUED:

PERMIT ISSUED:
PERMIT EXPIRATION DATE:
PLUG & ABANDONED DATE:
WELL CONSTRUCTED DATE:
PUMP INSTALLED DATE:
STATIC WATER LEVEL:
OWNER WELL NAME:

ADDRESS:

COMMENTS

Back to Report Summary

MAP ID# 16

Distance from Property: 0.14 mi. N

APPLICANT INFORMATION

RECEIPT #: 21753 PERMIT #: 2950

NAME: NOT REPORTED

COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED SUBDIVISION: NOT REPORTED LOT: NOT REPORTED **BLOCK: NOT REPORTED** FILING: NOT REPORTED WELL USE: STOCK

WELL DEPTH: NOT REPORTED WELL STATUS: APPLICATION DENIED

PERMIT ISSUED: 6/8/1972

PERMIT EXPIRATION DATE: NOT REPORTED PLUG & ABANDONED DATE: NOT REPORTED WELL CONSTRUCTED DATE: NOT REPORTED PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: GATES CYCLO INC.

ADDRESS: NOT REPORTED BRIGHTON, 80601

COMMENTS NOT REPORTED

MAP ID# 17

Distance from Property: 0.14 mi. NE

APPLICANT INFORMATION

RECEIPT#: 0528704G
PERMIT#: 259509
NAME: MW-H08
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL DEPTH: 16'
WELL STATUS: WELL CONSTRUCTED

PERMIT ISSUED: 9/28/2004

PERMIT EXPIRATION DATE: **NOT REPORTED**PLUG & ABANDONED DATE: **NOT REPORTED**

WELL CONSTRUCTED DATE: 5/26/2004
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED
OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 6950 SOUTH POTOMAC ST STE 300

CENTENNIAL, 80112

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 18

Distance from Property: 0.14 mi. SW

APPLICANT INFORMATION

RECEIPT #: 9004516

PERMIT #: NAME: COUNTY: AQUIFER: BASIN:

SUBDIVISION:

LOT:
BLOCK:
FILING:
WELL USE:
WELL DEPTH: '
WELL STATUS:

PERMIT ISSUED:

PERMIT EXPIRATION DATE:

PLUG & ABANDONED DATE:

WELL CONSTRUCTED DATE:

PUMP INSTALLED DATE:

STATIC WATER LEVEL:

OWNER WELL NAME:

ADDRESS:

COMMENTS

Back to Report Summary

MAP ID# 19

Distance from Property: 0.15 mi. SW

APPLICANT INFORMATION

RECEIPT #: 0440319 PERMIT #: 215794 NAME: NOT REPORTED COUNTY: ADAMS

AQUIFER: LARAMIE FOX HILLS

BASIN: NOT REPORTED SUBDIVISION: NOT REPORTED LOT: NOT REPORTED

BLOCK: NOT REPORTED FILING: NOT REPORTED WELL USE: DOMESTIC WELL DEPTH: 1025'

WELL STATUS: WELL CONSTRUCTED

PERMIT ISSUED: 02/22/1999

PERMIT EXPIRATION DATE: 02/22/2001

PLUG & ABANDONED DATE: NOT REPORTED WELL CONSTRUCTED DATE: 02/17/2000 PUMP INSTALLED DATE: 10/19/2000

STATIC WATER LEVEL: 500

OWNER WELL NAME: WAGNER GARY L TRUSTEE

ADDRESS: 9430 NEWTON

WESTMINSTER, 80030

COMMENTS NOT REPORTED

MAP ID# 19

Distance from Property: 0.15 mi. SW

APPLICANT INFORMATION

RECEIPT #: 440319
PERMIT #: 215794
NAME: NOT REPORTED

COUNTY: ADAMS

AQUIFER: LARAMIE FOX HILLS

BASIN: **NOT REPORTED**SUBDIVISION: **NOT REPORTED**LOT: **NOT REPORTED**

BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: DOMESTIC
WELL DEPTH: 1025'

WELL STATUS: WELL CONSTRUCTED

PERMIT ISSUED: 2/22/1999

PERMIT EXPIRATION DATE: 2/22/2001

PLUG & ABANDONED DATE: NOT REPORTED

WELL CONSTRUCTED DATE: 2/17/2000 PUMP INSTALLED DATE: 10/19/2000

STATIC WATER LEVEL: 500

OWNER WELL NAME: WAGNER GARY L TRUSTEE

ADDRESS: 9430 NEWTON

WESTMINSTER, 80030

COMMENTS
NOT REPORTED

Back to Report Summary

Order# 59165 Job# 127394 45 of 125

MAP ID# 20

Distance from Property: 0.15 mi. NE

APPLICANT INFORMATION

RECEIPT #: 0043579 PERMIT #: 43579 NAME: MW-HO8 COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED SUBDIVISION: NOT REPORTED LOT: NOT REPORTED **BLOCK: NOT REPORTED** FILING: NOT REPORTED WELL USE: OTHER

WELL DEPTH: NOT REPORTED

WELL STATUS: PERMIT ISSUED; COMPLETION STATUS UNKNOWN

PERMIT ISSUED: 05/20/2004

PERMIT EXPIRATION DATE: 08/19/2004

PLUG & ABANDONED DATE: NOT REPORTED WELL CONSTRUCTED DATE: NOT REPORTED PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 6950 S POTOMAC ST STE 300

CENTENNIAL, 80401

COMMENTS NOT REPORTED

MAP ID# 20

Distance from Property: 0.15 mi. NE

APPLICANT INFORMATION

RECEIPT #: 43579
PERMIT #: 43579
NAME: MW-HO8
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL DEPTH: NOT REPORTED

WELL STATUS: PERMIT ISSUED; COMPLETION STATUS UNKNOWN

PERMIT ISSUED: 5/20/2004

PERMIT EXPIRATION DATE: 8/19/2004

PLUG & ABANDONED DATE: NOT REPORTED
WELL CONSTRUCTED DATE: NOT REPORTED
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED
OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 6950 S POTOMAC ST STE 300

CENTENNIAL, 80401

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 21

Distance from Property: 0.15 mi. S

APPLICANT INFORMATION

RECEIPT #: 0528704B PERMIT #: 259503 NAME: MW-H02 COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED SUBDIVISION: NOT REPORTED LOT: NOT REPORTED **BLOCK: NOT REPORTED** FILING: NOT REPORTED WELL USE: OTHER

WELL STATUS: WELL ABANDONED

PERMIT ISSUED: 9/28/2004

WELL DEPTH: 38'

PERMIT EXPIRATION DATE: NOT REPORTED PLUG & ABANDONED DATE: NOT REPORTED

WELL CONSTRUCTED DATE: 5/25/2004 PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 6950 SOUTH POTOMAC ST STE 300

CENTENNIAL, 80112

COMMENTS NOT REPORTED

MAP ID# 22

Distance from Property: 0.17 mi. S

APPLICANT INFORMATION

RECEIPT #: 0528704C
PERMIT #: 259504
NAME: MW-H04
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL STATUS: WELL CONSTRUCTED

PERMIT ISSUED: 9/28/2004

WELL DEPTH: 15'

PERMIT EXPIRATION DATE: **NOT REPORTED**PLUG & ABANDONED DATE: **NOT REPORTED**

WELL CONSTRUCTED DATE: 5/26/2004
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED
OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 6950 SOUTH POTOMAC ST STE 300

CENTENNIAL, 80112

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 23

Distance from Property: 0.19 mi. NE

APPLICANT INFORMATION

RECEIPT #: 51095

PERMIT #: NAME: COUNTY: AQUIFER:

BASIN:

SUBDIVISION:

LOT:
BLOCK:
FILING:
WELL USE:
WELL DEPTH: '
WELL STATUS:

PERMIT ISSUED:

PERMIT EXPIRATION DATE: PLUG & ABANDONED DATE: WELL CONSTRUCTED DATE: PUMP INSTALLED DATE:

STATIC WATER LEVEL: OWNER WELL NAME:

ADDRESS:

COMMENTS

Back to Report Summary

MAP ID# 23

Distance from Property: 0.19 mi. NE

APPLICANT INFORMATION

RECEIPT #: 0043578
PERMIT #: 43578
NAME: MW-HO7
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL DEPTH: NOT REPORTED

WELL STATUS: PERMIT ISSUED; COMPLETION STATUS UNKNOWN

PERMIT ISSUED: 05/20/2004

PERMIT EXPIRATION DATE: 08/19/2004

PLUG & ABANDONED DATE: NOT REPORTED WELL CONSTRUCTED DATE: NOT REPORTED PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 6950 S POTOMAC ST STE 300

CENTENNIAL, 80401

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 23

Distance from Property: 0.19 mi. NE

APPLICANT INFORMATION

RECEIPT #: 0252156 PERMIT #: 138802 NAME: NOT REPORTED

BASIN: NOT REPORTED

COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

SUBDIVISION: NOT REPORTED LOT: NOT REPORTED **BLOCK: NOT REPORTED** FILING: NOT REPORTED WELL USE: DOMESTIC

WELL STATUS: WELL CONSTRUCTED

PERMIT ISSUED: 03/08/1985

WELL DEPTH: 300'

PERMIT EXPIRATION DATE: NOT REPORTED PLUG & ABANDONED DATE: NOT REPORTED WELL CONSTRUCTED DATE: 03/23/1985 PUMP INSTALLED DATE: 03/23/1985

STATIC WATER LEVEL: 120

OWNER WELL NAME: AGGREGATE RESC

ADDRESS: NOT REPORTED **DENVER, 80212**

COMMENTS NOT REPORTED

Back to Report Summary

Order# 59165 Job# 127394 52 of 125

MAP ID# 23

Distance from Property: 0.19 mi. NE

APPLICANT INFORMATION

RECEIPT #: 43578
PERMIT #: 43578
NAME: MW-HO7
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL DEPTH: NOT REPORTED

WELL STATUS: PERMIT ISSUED; COMPLETION STATUS UNKNOWN

PERMIT ISSUED: 5/20/2004

PERMIT EXPIRATION DATE: 8/19/2004

PLUG & ABANDONED DATE: NOT REPORTED WELL CONSTRUCTED DATE: NOT REPORTED PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 6950 S POTOMAC ST STE 300

CENTENNIAL, 80401

COMMENTS
NOT REPORTED

Back to Report Summary

Order# 59165 Job# 127394 53 of 125

MAP ID# 24

Distance from Property: 0.20 mi. SE

APPLICANT INFORMATION

RECEIPT #: 3654425H
PERMIT #: 287985
NAME: BH-108
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL STATUS: WELL ABANDONED

PERMIT ISSUED: 4/12/2012

WELL DEPTH: 17'

PERMIT EXPIRATION DATE: NOT REPORTED
PLUG & ABANDONED DATE: 11/17/2014
WELL CONSTRUCTED DATE: 9/1/2011
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED
OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O RJH CONSULTANTS INC 9800 MT PYRAMID COURT #330

ENGLEWOOD, 80112

COMMENTS
NOT REPORTED

Back to Report Summary

Order# 59165 Job# 127394 54 of 125

MAP ID# 24

Distance from Property: 0.20 mi. SE

APPLICANT INFORMATION

RECEIPT #: 3654425G
PERMIT #: 287984
NAME: BH-107
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL STATUS: WELL ABANDONED

PERMIT ISSUED: 4/12/2012

WELL DEPTH: 17'

PERMIT EXPIRATION DATE: NOT REPORTED PLUG & ABANDONED DATE: 11/17/2014
WELL CONSTRUCTED DATE: 8/31/2011
PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED
OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O RJH CONSULTANTS INC 9800 MT PYRAMID COURT #330

ENGLEWOOD, 80112

COMMENTS
NOT REPORTED

Back to Report Summary

Order# 59165 Job# 127394 55 of 125

MAP ID# 24

Distance from Property: 0.21 mi. SE

APPLICANT INFORMATION

RECEIPT #: 3654425A
PERMIT #: 287978
NAME: BH-101
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL STATUS: WELL ABANDONED

PERMIT ISSUED: 4/12/2012

WELL DEPTH: 17'

PERMIT EXPIRATION DATE: NOT REPORTED PLUG & ABANDONED DATE: 11/17/2014 WELL CONSTRUCTED DATE: 8/31/2011 PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O RJH CONSULTANTS INC 9800 MT PYRAMID COURT #330

ENGLEWOOD, 80112

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 24

Distance from Property: 0.21 mi. SE

APPLICANT INFORMATION

RECEIPT #: 3654425B
PERMIT #: 287979
NAME: BH-102
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL STATUS: WELL ABANDONED

PERMIT ISSUED: 4/12/2012

WELL DEPTH: 10'

PERMIT EXPIRATION DATE: NOT REPORTED PLUG & ABANDONED DATE: 11/17/2014 WELL CONSTRUCTED DATE: 8/31/2011 PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O RJH CONSULTANTS INC 9800 MT PYRAMID COURT #330

ENGLEWOOD, 80112

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 24

Distance from Property: 0.20 mi. SE

APPLICANT INFORMATION

RECEIPT #: 3654425C
PERMIT #: 287980
NAME: BH-103
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL STATUS: WELL ABANDONED

PERMIT ISSUED: 4/12/2012

WELL DEPTH: 17'

PERMIT EXPIRATION DATE: NOT REPORTED PLUG & ABANDONED DATE: 11/17/2014 WELL CONSTRUCTED DATE: 8/31/2011 PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O RJH CONSULTANTS INC 9800 MT PYRAMID COURT #330

ENGLEWOOD, 80112

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 24

Distance from Property: 0.21 mi. SE

APPLICANT INFORMATION

RECEIPT #: 3654425D
PERMIT #: 287981
NAME: BH-104
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL STATUS: WELL ABANDONED

PERMIT ISSUED: 4/12/2012

WELL DEPTH: 8'

PERMIT EXPIRATION DATE: NOT REPORTED PLUG & ABANDONED DATE: 11/17/2014 WELL CONSTRUCTED DATE: 8/31/2011 PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O RJH CONSULTANTS INC 9800 MT PYRAMID COURT #330

ENGLEWOOD, 80112

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 24

Distance from Property: 0.21 mi. SE

APPLICANT INFORMATION

RECEIPT #: 3654425E
PERMIT #: 287982
NAME: BH-105
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL STATUS: WELL ABANDONED

PERMIT ISSUED: 4/12/2012

WELL DEPTH: 17'

PERMIT EXPIRATION DATE: NOT REPORTED
PLUG & ABANDONED DATE: 11/17/2014
WELL CONSTRUCTED DATE: 9/1/2011
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED
OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O RJH CONSULTANTS INC 9800 MT PYRAMID COURT #330

ENGLEWOOD, 80112

COMMENTS
NOT REPORTED

Back to Report Summary

Order# 59165 Job# 127394 60 of 125

MAP ID# 24

Distance from Property: 0.20 mi. SE

APPLICANT INFORMATION

RECEIPT #: 3654425F
PERMIT #: 287983
NAME: BH-106
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL STATUS: WELL ABANDONED

PERMIT ISSUED: 4/12/2012

WELL DEPTH: 17'

PERMIT EXPIRATION DATE: NOT REPORTED PLUG & ABANDONED DATE: 11/17/2014 WELL CONSTRUCTED DATE: 8/31/2011 PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O RJH CONSULTANTS INC 9800 MT PYRAMID COURT #330

ENGLEWOOD, 80112

COMMENTS
NOT REPORTED

Back to Report Summary

Order# 59165 Job# 127394 61 of 125

MAP ID# 24

Distance from Property: 0.21 mi. SE

APPLICANT INFORMATION

RECEIPT #: 3654425I
PERMIT #: 287986
NAME: BH-109
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL STATUS: WELL ABANDONED

PERMIT ISSUED: 4/12/2012

WELL DEPTH: 17'

PERMIT EXPIRATION DATE: NOT REPORTED
PLUG & ABANDONED DATE: 11/17/2014
WELL CONSTRUCTED DATE: 9/1/2011
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED
OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O RJH CONSULTANTS INC 9800 MT PYRAMID COURT #330

ENGLEWOOD, 80112

COMMENTS
NOT REPORTED

Back to Report Summary

Order# 59165 Job# 127394 62 of 125

MAP ID# 24

Distance from Property: 0.21 mi. SE

APPLICANT INFORMATION

RECEIPT #: 3654425J
PERMIT #: 287987
NAME: BH-110
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL STATUS: WELL ABANDONED

PERMIT ISSUED: 4/12/2012

WELL DEPTH: 14'

PERMIT EXPIRATION DATE: NOT REPORTED
PLUG & ABANDONED DATE: 11/17/2014
WELL CONSTRUCTED DATE: 9/1/2011
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED
OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O RJH CONSULTANTS INC 9800 MT PYRAMID COURT #330

ENGLEWOOD, 80112

COMMENTS
NOT REPORTED

Back to Report Summary

Order# 59165 Job# 127394 63 of 125

MAP ID# 24

Distance from Property: 0.21 mi. SE

APPLICANT INFORMATION

RECEIPT #: 3654425K
PERMIT #: 287988
NAME: BH-111
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL STATUS: WELL ABANDONED

PERMIT ISSUED: 4/12/2012

WELL DEPTH: 17'

PERMIT EXPIRATION DATE: NOT REPORTED
PLUG & ABANDONED DATE: 11/17/2014
WELL CONSTRUCTED DATE: 9/1/2011
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED
OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O RJH CONSULTANTS INC 9800 MT PYRAMID COURT #330

ENGLEWOOD, 80112

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 24

Distance from Property: 0.20 mi. SE

APPLICANT INFORMATION

RECEIPT #: 3654425M
PERMIT #: 287990
NAME: BH-113
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL STATUS: WELL ABANDONED

PERMIT ISSUED: 4/12/2012

WELL DEPTH: 17'

PERMIT EXPIRATION DATE: NOT REPORTED PLUG & ABANDONED DATE: 11/17/2014 WELL CONSTRUCTED DATE: 8/31/2011 PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O RJH CONSULTANTS INC 9800 MT PYRAMID COURT #330

ENGLEWOOD, 80112

COMMENTS
NOT REPORTED

Back to Report Summary

Order# 59165 Job# 127394 65 of 125

MAP ID# 24

Distance from Property: 0.21 mi. SE

APPLICANT INFORMATION

RECEIPT #: 3654425N
PERMIT #: 287991
NAME: BH-114
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL STATUS: WELL ABANDONED

PERMIT ISSUED: 4/12/2012

WELL DEPTH: 17'

PERMIT EXPIRATION DATE: NOT REPORTED PLUG & ABANDONED DATE: 11/17/2014 WELL CONSTRUCTED DATE: 9/1/2011 PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O RJH CONSULTANTS INC 9800 MT PYRAMID COURT #330

ENGLEWOOD, 80112

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 24

Distance from Property: 0.21 mi. SE

APPLICANT INFORMATION

RECEIPT #: 36544250
PERMIT #: 287992
NAME: BH-115
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL STATUS: WELL ABANDONED

PERMIT ISSUED: 4/12/2012

WELL DEPTH: 17'

PERMIT EXPIRATION DATE: NOT REPORTED
PLUG & ABANDONED DATE: 11/17/2014
WELL CONSTRUCTED DATE: 9/1/2011
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED
OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O RJH CONSULTANTS INC 9800 MT PYRAMID COURT #330

ENGLEWOOD, 80112

COMMENTS
NOT REPORTED

Back to Report Summary

Order# 59165 Job# 127394 67 of 125

MAP ID# 24

Distance from Property: 0.19 mi. SE

APPLICANT INFORMATION

RECEIPT #: 3654425P
PERMIT #: 287993
NAME: BH-117
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL STATUS: WELL ABANDONED

PERMIT ISSUED: 4/12/2012

WELL DEPTH: 17'

PERMIT EXPIRATION DATE: NOT REPORTED PLUG & ABANDONED DATE: 11/17/2014 WELL CONSTRUCTED DATE: 9/2/2011 PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O RJH CONSULTANTS INC 9800 MT PYRAMID COURT #330

ENGLEWOOD, 80112

COMMENTS
NOT REPORTED

Back to Report Summary

Order# 59165 Job# 127394 68 of 125

MAP ID# 24

Distance from Property: 0.20 mi. SE

APPLICANT INFORMATION

RECEIPT #: 3654425L
PERMIT #: 287989
NAME: BH-112
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL STATUS: WELL ABANDONED

PERMIT ISSUED: 4/12/2012

WELL DEPTH: 18'

PERMIT EXPIRATION DATE: NOT REPORTED PLUG & ABANDONED DATE: 11/17/2014 WELL CONSTRUCTED DATE: 8/31/2011 PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O RJH CONSULTANTS INC 9800 MT PYRAMID COURT #330

ENGLEWOOD, 80112

COMMENTS
NOT REPORTED

Back to Report Summary

Order# 59165 Job# 127394 69 of 125

MAP ID# 25

Distance from Property: 0.22 mi. SE

APPLICANT INFORMATION

RECEIPT #: 3654425Q
PERMIT #: 287994
NAME: BH-118
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL STATUS: WELL ABANDONED

PERMIT ISSUED: 4/12/2012

WELL DEPTH: 18'

PERMIT EXPIRATION DATE: NOT REPORTED PLUG & ABANDONED DATE: 11/17/2014 WELL CONSTRUCTED DATE: 9/2/2011 PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O RJH CONSULTANTS INC 9800 MT PYRAMID COURT #330

ENGLEWOOD, 80112

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 26

Distance from Property: 0.21 mi. SW

APPLICANT INFORMATION

RECEIPT #: 0531485A
PERMIT #: 260252
NAME: MW-H03
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL DEPTH: **NOT REPORTED**WELL STATUS: **WELL CONSTRUCTED**

PERMIT ISSUED: 11/3/2004

PERMIT EXPIRATION DATE: **NOT REPORTED**PLUG & ABANDONED DATE: **NOT REPORTED**

WELL CONSTRUCTED DATE: 9/17/2004
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED
OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 6950 SOUTH POTOMAC ST STE 300

CENTENNIAL, 80112

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 27

Distance from Property: 0.24 mi. W

APPLICANT INFORMATION

RECEIPT #: 0454399B
PERMIT #: 53127
NAME: TCF 6
COUNTY: ADAMS

AQUIFER: LARAMIE FOX HILLS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED

BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: MUNICIPAL
WELL DEPTH: 1080'

WELL STATUS: WELL CONSTRUCTED

PERMIT ISSUED: 1/6/2000

PERMIT EXPIRATION DATE: 1/6/2001

PLUG & ABANDONED DATE: NOT REPORTED

WELL CONSTRUCTED DATE: 4/17/2000
PUMP INSTALLED DATE: NOT REPORTED

STATIC WATER LEVEL: 530

OWNER WELL NAME: TODD CREEK METRO DISTRICT #1

ADDRESS: PO BOX 490

BRIGHTON, 80601

COMMENTS

X-REF 49680-F,46216-F,47815-F & 49941-F

Back to Report Summary

MAP ID# 28

Distance from Property: 0.25 mi. NE

APPLICANT INFORMATION

RECEIPT #: 0528704F PERMIT #: 259508 NAME: MW-H07 COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED SUBDIVISION: NOT REPORTED LOT: NOT REPORTED **BLOCK: NOT REPORTED** FILING: NOT REPORTED WELL USE: OTHER

WELL DEPTH: NOT REPORTED WELL STATUS: WELL ABANDONED

PERMIT ISSUED: 9/28/2004

PERMIT EXPIRATION DATE: NOT REPORTED PLUG & ABANDONED DATE: 8/18/2011 WELL CONSTRUCTED DATE: 6/15/2004 PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 6950 SOUTH POTOMAC ST STE 300

CENTENNIAL, 80112

COMMENTS NOT REPORTED

Back to Report Summary

United States Geological Survey National Water Information System (NWIS)

MAP ID# 29

Distance from Property: 0.27 mi. S

REPORTING AGENCY: US GEOLOGICAL SURVEY

SITE NUMBER: 395714104514500

STATION NAME: SC00106723BCA USGS 395714104514500

SITE TYPE: WELL

LATITUDE: 39.953873360 LONGITUDE: -104.863030300

DATE DRILLED: 1966-11-15
WELL DEPTH: NOT REPORTED
HOLE DEPTH: NOT REPORTED

LOCAL AQUIFER: VALLEY-FILL DEPOSITS

Back to Report Summary

United States Geological Survey National Water Information System (NWIS)

MAP ID# 29

Distance from Property: 0.27 mi. S

REPORTING AGENCY: US GEOLOGICAL SURVEY

SITE NUMBER: 395714104514501

STATION NAME: SC00106723BCA1 RUSSELL PERRY

SITE TYPE: WELL

LATITUDE: **39.953873360** LONGITUDE: -104.863030300

DATE DRILLED: --

WELL DEPTH: NOT REPORTED HOLE DEPTH: NOT REPORTED

LOCAL AQUIFER: VALLEY-FILL DEPOSITS

Back to Report Summary

MAP ID# 29

Distance from Property: 0.26 mi. S

APPLICANT INFORMATION

RECEIPT#: 3647173D
PERMIT#: 283956
NAME: MW-H02B
COUNTY: ADAMS

AQUIFER: QUATERNARY ALLUVIUM

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL DEPTH: **NOT REPORTED**WELL STATUS: **WELL CONSTRUCTED**

PERMIT ISSUED: 9/8/2010

PERMIT EXPIRATION DATE: **NOT REPORTED**PLUG & ABANDONED DATE: **NOT REPORTED**

WELL CONSTRUCTED DATE: 8/3/2010
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED

OWNER WELL NAME: THORNTON CITY OF/INFRA MAINT DEPT

ADDRESS: C/O GEI CONSULTANTS INC 4601 DTC BOULEVARD SUITE 900

DENVER, 80237

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 30

Distance from Property: 0.27 mi. S

APPLICANT INFORMATION

RECEIPT #: 0312623D
PERMIT #: 12147
NAME: AL-4

COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: MUNICIPAL

WELL DEPTH: **NOT REPORTED**WELL STATUS: **APPLICATION DENIED**

PERMIT ISSUED: 5/21/1990

PERMIT EXPIRATION DATE: NOT REPORTED
PLUG & ABANDONED DATE: NOT REPORTED
WELL CONSTRUCTED DATE: NOT REPORTED
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED
OWNER WELL NAME: CARLSON ASSOC
ADDRESS: 11990 GRANT ST STE 200

DENVER, 80233

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 31

Distance from Property: 0.28 mi. SW

APPLICANT INFORMATION

RECEIPT #: 0464335A PERMIT #: 54358 NAME: TCF 8 COUNTY: ADAMS

AQUIFER: LARAMIE FOX HILLS

BASIN: NOT REPORTED SUBDIVISION: NOT REPORTED LOT: NOT REPORTED **BLOCK: NOT REPORTED**

FILING: NOT REPORTED WELL USE: MUNICIPAL WELL DEPTH: 1058'

WELL STATUS: PERMIT CANCELED

PERMIT ISSUED: 8/18/2000

PERMIT EXPIRATION DATE: 8/18/2001

PLUG & ABANDONED DATE: NOT REPORTED WELL CONSTRUCTED DATE: NOT REPORTED

PUMP INSTALLED DATE: 5/1/2001 STATIC WATER LEVEL: 197

OWNER WELL NAME: TODD CREEK FARMS METRO DIST #1

ADDRESS: PO BOX 490

BRIGHTON, 80601

COMMENTS NOT REPORTED

Back to Report Summary

MAP ID# 31

Distance from Property: 0.28 mi. SW

APPLICANT INFORMATION

RECEIPT #: 0520818B
PERMIT #: 60889
NAME: TCMD #8
COUNTY: ADAMS

AQUIFER: LARAMIE FOX HILLS
BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED

LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: MUNICIPAL
WELL DEPTH: 1100'

WELL STATUS: WELL CONSTRUCTED

PERMIT ISSUED: 3/23/2004

PERMIT EXPIRATION DATE: 3/23/2005

PLUG & ABANDONED DATE: NOT REPORTED

WELL CONSTRUCTED DATE: 10/2/2000 PUMP INSTALLED DATE: 5/1/2001 STATIC WATER LEVEL: 400

OWNER WELL NAME: TODD CREEK FARMS METRO DISTRICT NO 1

ADDRESS: PO BOX 490

BRIGHTON, 80601

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 32

Distance from Property: 0.28 mi. SE

APPLICANT INFORMATION

RECEIPT #: 52231

PERMIT #: NAME: COUNTY:

AQUIFER: BASIN:

SUBDIVISION:

LOT: BLOCK: FILING: WELL USE:

WELL USE:
WELL DEPTH: '
WELL STATUS:
PERMIT ISSUED:

PERMIT ISSUED:
PERMIT EXPIRATION DATE:
PLUG & ABANDONED DATE:
WELL CONSTRUCTED DATE:
PUMP INSTALLED DATE:
STATIC WATER LEVEL:
OWNER WELL NAME:

ADDRESS:

COMMENTS

Back to Report Summary

MAP ID# 32

Distance from Property: 0.29 mi. SE

APPLICANT INFORMATION

RECEIPT #: 0051831A
PERMIT #: 51831
NAME: NOT REPORTED

COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL DEPTH: **NOT REPORTED**WELL STATUS: **WELL ABANDONED**

PERMIT ISSUED: 8/26/2013

PERMIT EXPIRATION DATE: 11/24/2013
PLUG & ABANDONED DATE: 8/25/2014
WELL CONSTRUCTED DATE: NOT REPORTED
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED

OWNER WELL NAME: METRO WASTEWATER RECLAMATION DISTRICT

ADDRESS: **NOT REPORTED NOT REPORTED**,

COMMENTS

THREE (3) HOLES TO BE CONSTRUCTED NOTICE SUBMITTED THAT WELLS ARE FOR DEWATERING PURPOSES 6-17-14 SVJ

Back to Report Summary

MAP ID# 32

Distance from Property: 0.29 mi. SE

APPLICANT INFORMATION

RECEIPT #: 52225

PERMIT #: NAME: COUNTY: AQUIFER: BASIN:

SUBDIVISION:

LOT:
BLOCK:
FILING:
WELL USE:
WELL DEPTH: '
WELL STATUS:
PERMIT ISSUED:

PERMIT EXPIRATION DATE:

PLUG & ABANDONED DATE:

WELL CONSTRUCTED DATE:

PUMP INSTALLED DATE: STATIC WATER LEVEL:

OWNER WELL NAME:

ADDRESS:

COMMENTS

Back to Report Summary

MAP ID# 33

Distance from Property: 0.29 mi. NE

APPLICANT INFORMATION

RECEIPT #: **0220289**PERMIT #: **4577**

NAME: NOT REPORTED

BASIN: NOT REPORTED

COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

SUBDIVISION: NOT REPORTED

LOT: NOT REPORTED

BLOCK: NOT REPORTED

FILING: NOT REPORTED

WELL USE: COMMERCIAL

WELL DEPTH: NOT REPORTED

WELL STATUS: PERMIT ISSUED; COMPLETION STATUS UNKNOWN

PERMIT ISSUED: 03/05/1982

PERMIT EXPIRATION DATE: 03/05/1983

PLUG & ABANDONED DATE: NOT REPORTED WELL CONSTRUCTED DATE: NOT REPORTED PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED

OWNER WELL NAME: UNITED BANK OF DENVER

ADDRESS: 1700 BROADWAY
DENVER, 80290

COMMENTS

NO LOG RECEIVED. PREVIOUS WELL SITE ERODED AWAY BY THE RIVER.

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Order# 59165 Job# 127394 83 of 125

MAP ID# 33

Distance from Property: 0.29 mi. NE

APPLICANT INFORMATION

RECEIPT #: 220289 PERMIT #: 4577 NAME: NOT REPORTED

COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED SUBDIVISION: NOT REPORTED LOT: NOT REPORTED **BLOCK: NOT REPORTED** FILING: NOT REPORTED WELL USE: COMMERCIAL

WELL DEPTH: NOT REPORTED

WELL STATUS: PERMIT ISSUED; COMPLETION STATUS UNKNOWN

PERMIT ISSUED: 3/5/1982

PERMIT EXPIRATION DATE: 3/5/1983

PLUG & ABANDONED DATE: NOT REPORTED WELL CONSTRUCTED DATE: NOT REPORTED PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED

OWNER WELL NAME: UNITED BANK OF DENVER

ADDRESS: 1700 BROADWAY **DENVER, 80290**

COMMENTS

NO LOG RECEIVED. PREVIOUS WELL SITE ERODED AWAY BY THE RIVER.

Back to Report Summary

MAP ID# 34

Distance from Property: 0.30 mi. N

APPLICANT INFORMATION

RECEIPT #: 51094

PERMIT #: NAME: COUNTY: AQUIFER:

BASIN:

SUBDIVISION:

LOT:
BLOCK:
FILING:
WELL USE:
WELL DEPTH:

WELL STATUS: PERMIT ISSUED:

PERMIT EXPIRATION DATE:
PLUG & ABANDONED DATE:
WELL CONSTRUCTED DATE:
PUMP INSTALLED DATE:
STATIC WATER LEVEL:
OWNER WELL NAME:

ADDRESS:

COMMENTS

Back to Report Summary

MAP ID# 34

Distance from Property: 0.30 mi. N

APPLICANT INFORMATION

RECEIPT #: 3662301B
PERMIT #: 292767
NAME: MW-02
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL STATUS: WELL CONSTRUCTED

PERMIT ISSUED: 10/29/2013

WELL DEPTH: 10'

PERMIT EXPIRATION DATE: **NOT REPORTED**PLUG & ABANDONED DATE: **NOT REPORTED**WELL CONSTRUCTED DATE: **12/17/2012**PUMP INSTALLED DATE: **NOT REPORTED**

STATIC WATER LEVEL: 1

OWNER WELL NAME: TODD CREEK VILLAGE METROPOLITAN DIST

ADDRESS: **NOT REPORTED NOT REPORTED**,

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 35

Distance from Property: 0.32 mi. NE

APPLICANT INFORMATION

RECEIPT#: 0441119
PERMIT#: 216092
NAME: NOT REPORTED

COUNTY: ADAMS
AQUIFER: ARAPAHOE
BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED

LOT: NOT REPORTED

BLOCK: NOT REPORTED

FILING: NOT REPORTED

WELL USE: DOMESTIC

WELL DEPTH: 520'

 $\mathsf{WELL}\;\mathsf{STATUS};\,\mathbf{WELL}\;\mathbf{ABANDONED}$

PERMIT ISSUED: 03/11/1999

PERMIT EXPIRATION DATE: 03/11/2001
PLUG & ABANDONED DATE: 06/02/2000
WELL CONSTRUCTED DATE: 03/16/1999
PUMP INSTALLED DATE: 04/07/1999

STATIC WATER LEVEL: 90

OWNER WELL NAME: AGGREGATE RESOURCES

ADDRESS: 4330 W 37TH AVE DENVER, 80212

COMMENTS

PUMP TEST ONLY 07/22/1999 LIC 1081

Back to Report Summary

MAP ID# 35

Distance from Property: 0.32 mi. NE

APPLICANT INFORMATION

RECEIPT #: 441119
PERMIT #: 216092
NAME: NOT REPORTED

COUNTY: ADAMS
AQUIFER: ARAPAHOE
BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED

LOT: NOT REPORTED

BLOCK: NOT REPORTED

FILING: NOT REPORTED

WELL USE: DOMESTIC

WELL DEPTH: 520'

WELL STATUS: WELL ABANDONED

PERMIT ISSUED: 3/11/1999

PERMIT EXPIRATION DATE: 3/11/2001
PLUG & ABANDONED DATE: 6/2/2000
WELL CONSTRUCTED DATE: 3/16/1999
PUMP INSTALLED DATE: 4/7/1999

STATIC WATER LEVEL: 90

OWNER WELL NAME: AGGREGATE RESOURCES

ADDRESS: 4330 W 37TH AVE DENVER, 80212

COMMENTS

PUMP TEST ONLY 07/22/1999 LIC 1081

Back to Report Summary

MAP ID# 36

Distance from Property: 0.36 mi. NE

APPLICANT INFORMATION

RECEIPT#: 0485759
PERMIT#: 56993
NAME: BRIGHTON PIT
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL STATUS: WELL CONSTRUCTED

PERMIT ISSUED: 01/16/2002

WELL DEPTH: 0'

PERMIT EXPIRATION DATE: 01/16/2003

PLUG & ABANDONED DATE: NOT REPORTED
WELL CONSTRUCTED DATE: NOT REPORTED
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED

OWNER WELL NAME: AGGREGATE INDUSTRIES

ADDRESS: C/O APPLEGATE GROUP INC 1499 WEST 120TH AVE STE 200

DENVER, 80234

COMMENTS

DMG#-M-77-436 ALSO SECTION 23

Back to Report Summary

MAP ID# 36

Distance from Property: 0.36 mi. NE

APPLICANT INFORMATION

RECEIPT #: 485759

PERMIT #: NAME: COUNTY: AQUIFER: BASIN:

SUBDIVISION:

LOT: BLOCK: FILING: WELL USE: WELL DEPTH: ' WELL STATUS:

PERMIT ISSUED:

PERMIT EXPIRATION DATE: PLUG & ABANDONED DATE: WELL CONSTRUCTED DATE: PUMP INSTALLED DATE: STATIC WATER LEVEL: OWNER WELL NAME:

ADDRESS:

COMMENTS

MAP ID# 37

Distance from Property: 0.38 mi. S

APPLICANT INFORMATION

RECEIPT #: 49258

PERMIT #: NAME: COUNTY: AQUIFER: BASIN:

SUBDIVISION:

LOT:
BLOCK:
FILING:
WELL USE:
WELL DEPTH: '
WELL STATUS:
PERMIT ISSUED:

PERMIT EXPIRATION DATE:

PLUG & ABANDONED DATE:

WELL CONSTRUCTED DATE:

PUMP INSTALLED DATE: STATIC WATER LEVEL:

OWNER WELL NAME:

ADDRESS:

COMMENTS

Back to Report Summary

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MAP ID# 37

Distance from Property: 0.38 mi. S

APPLICANT INFORMATION

RECEIPT #: 0043574
PERMIT #: 43574
NAME: MW-HO2
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL DEPTH: NOT REPORTED

WELL STATUS: PERMIT ISSUED; COMPLETION STATUS UNKNOWN

PERMIT ISSUED: 05/20/2004

PERMIT EXPIRATION DATE: 08/19/2004

PLUG & ABANDONED DATE: NOT REPORTED WELL CONSTRUCTED DATE: NOT REPORTED PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 6950 S POTOMAC ST STE 300

CENTENNIAL, 80401

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 37

Distance from Property: 0.38 mi. S

APPLICANT INFORMATION

RECEIPT #: 0049258
PERMIT #: 49258
NAME: NOT REPORTED

COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL DEPTH: **NOT REPORTED**WELL STATUS: **WELL CONSTRUCTED**

PERMIT ISSUED: 07/27/2010

PERMIT EXPIRATION DATE: 10/24/2010

PLUG & ABANDONED DATE: NOT REPORTED
WELL CONSTRUCTED DATE: 09/01/2010
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED
OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 4601 DTC BLVD SUITE 900

DENVER, 80237

COMMENTS

ONE (1) HOLE TO BE CONSTRUCTED

Back to Report Summary

MAP ID# 37

Distance from Property: 0.38 mi. S

APPLICANT INFORMATION

RECEIPT #: 43574 PERMIT #: 43574 NAME: MW-HO2 COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED SUBDIVISION: NOT REPORTED LOT: NOT REPORTED **BLOCK: NOT REPORTED** FILING: NOT REPORTED WELL USE: OTHER

WELL DEPTH: NOT REPORTED

WELL STATUS: PERMIT ISSUED; COMPLETION STATUS UNKNOWN

PERMIT ISSUED: 5/20/2004

PERMIT EXPIRATION DATE: 8/19/2004

PLUG & ABANDONED DATE: NOT REPORTED WELL CONSTRUCTED DATE: NOT REPORTED PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 6950 S POTOMAC ST STE 300

CENTENNIAL, 80401

COMMENTS NOT REPORTED

MAP ID# 38

Distance from Property: 0.38 mi. S

APPLICANT INFORMATION

RECEIPT #: 0528704A PERMIT #: **259502** NAME: MW-H01 COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED SUBDIVISION: NOT REPORTED LOT: NOT REPORTED **BLOCK: NOT REPORTED** FILING: NOT REPORTED

WELL DEPTH: NOT REPORTED WELL STATUS: WELL CONSTRUCTED

PERMIT ISSUED: 9/28/2004

WELL USE: OTHER

PERMIT EXPIRATION DATE: NOT REPORTED PLUG & ABANDONED DATE: NOT REPORTED

WELL CONSTRUCTED DATE: 6/16/2004 PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 6950 SOUTH POTOMAC ST STE 300

CENTENNIAL, 80112

COMMENTS NOT REPORTED

MAP ID# 39

Distance from Property: 0.38 mi. NE

APPLICANT INFORMATION

RECEIPT #: 9004232

PERMIT #: NAME: COUNTY: AQUIFER: BASIN:

SUBDIVISION:

LOT:
BLOCK:
FILING:
WELL USE:
WELL DEPTH: '
WELL STATUS:
PERMIT ISSUED:

PERMIT EXPIRATION DATE: PLUG & ABANDONED DATE:

WELL CONSTRUCTED DATE: PUMP INSTALLED DATE: STATIC WATER LEVEL:

OWNER WELL NAME:

ADDRESS:

COMMENTS

MAP ID# 40

Distance from Property: 0.39 mi. E

APPLICANT INFORMATION

RECEIPT #: 51829

PERMIT #: NAME: COUNTY: AQUIFER:

BASIN: SUBDIVISION:

LOT: BLOCK: FILING: WELL USE: WELL DEPTH: '

WELL STATUS: PERMIT ISSUED:

PERMIT ISSUED:
PERMIT EXPIRATION DATE:
PLUG & ABANDONED DATE:
WELL CONSTRUCTED DATE:
PUMP INSTALLED DATE:
STATIC WATER LEVEL:
OWNER WELL NAME:

ADDRESS:

COMMENTS

MAP ID# 40

Distance from Property: 0.39 mi. E

APPLICANT INFORMATION

RECEIPT #: 0049257
PERMIT #: 49257
NAME: NOT REPORTED

COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL DEPTH: **NOT REPORTED**WELL STATUS: **WELL CONSTRUCTED**

PERMIT ISSUED: 07/27/2010

PERMIT EXPIRATION DATE: 10/24/2010

PLUG & ABANDONED DATE: NOT REPORTED
WELL CONSTRUCTED DATE: 08/03/2010
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED

OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 4601 DTC BLVD SUITE 900

DENVER, 80237

COMMENTS

ONE (1) HOLE TO BE CONSTRUCTED

Back to Report Summary

Order# 59165 Job# 127394 98 of 125

MAP ID# 40

Distance from Property: 0.39 mi. E

APPLICANT INFORMATION

RECEIPT #: 49257

PERMIT #: NAME: COUNTY: AQUIFER: BASIN:

SUBDIVISION:

LOT:
BLOCK:
FILING:
WELL USE:
WELL DEPTH:

WELL STATUS: PERMIT ISSUED:

PERMIT EXPIRATION DATE: PLUG & ABANDONED DATE:

WELL CONSTRUCTED DATE:

PUMP INSTALLED DATE: STATIC WATER LEVEL: OWNER WELL NAME:

ADDRESS:

COMMENTS

MAP ID# 41

Distance from Property: 0.39 mi. SW

APPLICANT INFORMATION

RECEIPT #: 0464335B PERMIT #: 54359 NAME: TCF 7 COUNTY: ADAMS

AQUIFER: LARAMIE FOX HILLS BASIN: NOT REPORTED SUBDIVISION: NOT REPORTED LOT: NOT REPORTED

BLOCK: NOT REPORTED FILING: NOT REPORTED WELL USE: MUNICIPAL WELL DEPTH: 1086'

WELL STATUS: PERMIT CANCELED

PERMIT ISSUED: 8/18/2000

PERMIT EXPIRATION DATE: 8/18/2001

PLUG & ABANDONED DATE: NOT REPORTED WELL CONSTRUCTED DATE: NOT REPORTED

PUMP INSTALLED DATE: 4/27/2001 STATIC WATER LEVEL: 164

OWNER WELL NAME: TODD CREEK FARMS METRO DIST #1

ADDRESS: PO BOX 490

BRIGHTON, 80601

COMMENTS NOT REPORTED

MAP ID# 41

Distance from Property: 0.39 mi. SW

APPLICANT INFORMATION

RECEIPT #: 0520818A
PERMIT #: 60888
NAME: TCMD #7
COUNTY: ADAMS

AQUIFER: LARAMIE FOX HILLS
BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED

BLOCK: **NOT REPORTED** FILING: **NOT REPORTED**

WELL USE: ALL BENEFICIAL USES

WELL DEPTH: 1100'

WELL STATUS: WELL CONSTRUCTED

PERMIT ISSUED: 3/23/2004

PERMIT EXPIRATION DATE: 3/23/2005

PLUG & ABANDONED DATE: NOT REPORTED

WELL CONSTRUCTED DATE: 9/14/2000
PUMP INSTALLED DATE: NOT REPORTED

STATIC WATER LEVEL: 650

OWNER WELL NAME: TODD CREEK FARMS METRO DISTRICT NO 1

ADDRESS: PO BOX 490

BRIGHTON, 80601

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 42

Distance from Property: 0.40 mi. SW

APPLICANT INFORMATION

RECEIPT #: 0043573 PERMIT #: 43573 NAME: MW-HO1 COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED SUBDIVISION: NOT REPORTED LOT: NOT REPORTED **BLOCK: NOT REPORTED** FILING: NOT REPORTED WELL USE: OTHER

WELL DEPTH: NOT REPORTED

WELL STATUS: PERMIT ISSUED; COMPLETION STATUS UNKNOWN

PERMIT ISSUED: 05/20/2004

PERMIT EXPIRATION DATE: 08/19/2004

PLUG & ABANDONED DATE: NOT REPORTED WELL CONSTRUCTED DATE: NOT REPORTED PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 6950 S POTOMAC ST STE 300

CENTENNIAL, 80401

COMMENTS NOT REPORTED

Back to Report Summary

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MAP ID# 42

Distance from Property: 0.40 mi. SW

APPLICANT INFORMATION

RECEIPT #: 43573
PERMIT #: 43573
NAME: MW-HO1
COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL DEPTH: NOT REPORTED

WELL STATUS: PERMIT ISSUED; COMPLETION STATUS UNKNOWN

PERMIT ISSUED: 5/20/2004

PERMIT EXPIRATION DATE: 8/19/2004

PLUG & ABANDONED DATE: NOT REPORTED
WELL CONSTRUCTED DATE: NOT REPORTED
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED
OWNER WELL NAME: THORNTON CITY OF

ADDRESS: C/O GEI CONSULTANTS INC 6950 S POTOMAC ST STE 300

CENTENNIAL, 80401

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 43

Distance from Property: 0.40 mi. NE

APPLICANT INFORMATION

RECEIPT#: 3661193D
PERMIT#: 292197
NAME: HAMMER PIT 4
COUNTY: ADAMS

AQUIFER: QUATERNARY ALLUVIUM

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL DEPTH: NOT REPORTED

WELL STATUS: PERMIT ISSUED; COMPLETION STATUS UNKNOWN

PERMIT ISSUED: 8/7/2013

PERMIT EXPIRATION DATE: 8/7/2015

PLUG & ABANDONED DATE: NOT REPORTED
WELL CONSTRUCTED DATE: NOT REPORTED
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED

OWNER WELL NAME: METRO WASTEWATER RECLAMATION DISTRICT

ADDRESS: **NOT REPORTED NOT REPORTED**,

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 43

Distance from Property: 0.40 mi. NE

APPLICANT INFORMATION

RECEIPT #: 3661193E PERMIT #: 292198 NAME: HAMMER PIT 5 COUNTY: ADAMS

AQUIFER: QUATERNARY ALLUVIUM

BASIN: NOT REPORTED SUBDIVISION: NOT REPORTED LOT: NOT REPORTED **BLOCK: NOT REPORTED** FILING: NOT REPORTED WELL USE: OTHER

WELL DEPTH: NOT REPORTED

WELL STATUS: PERMIT ISSUED; COMPLETION STATUS UNKNOWN

PERMIT ISSUED: 8/7/2013

PERMIT EXPIRATION DATE: 8/7/2015

PLUG & ABANDONED DATE: NOT REPORTED WELL CONSTRUCTED DATE: NOT REPORTED PUMP INSTALLED DATE: NOT REPORTED STATIC WATER LEVEL: NOT REPORTED

OWNER WELL NAME: METRO WASTEWATER RECLAMATION DISTRICT

ADDRESS: NOT REPORTED NOT REPORTED,

COMMENTS NOT REPORTED

MAP ID# 43

Distance from Property: 0.40 mi. NE

APPLICANT INFORMATION

RECEIPT#: 3661193F
PERMIT#: 292199
NAME: HAMMER PIT 6
COUNTY: ADAMS

AQUIFER: QUATERNARY ALLUVIUM

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL DEPTH: NOT REPORTED

WELL STATUS: PERMIT ISSUED; COMPLETION STATUS UNKNOWN

PERMIT ISSUED: 8/7/2013

PERMIT EXPIRATION DATE: 8/7/2015

PLUG & ABANDONED DATE: NOT REPORTED
WELL CONSTRUCTED DATE: NOT REPORTED
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED

OWNER WELL NAME: METRO WASTEWATER RECLAMATION DISTRICT

ADDRESS: **NOT REPORTED NOT REPORTED**,

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 43

Distance from Property: 0.40 mi. NE

APPLICANT INFORMATION

RECEIPT #: 51828

PERMIT #: NAME: COUNTY: AQUIFER:

BASIN:

SUBDIVISION:

LOT:
BLOCK:
FILING:
WELL USE:
WELL DEPTH: '

WELL STATUS: PERMIT ISSUED:

PERMIT EXPIRATION DATE: PLUG & ABANDONED DATE: WELL CONSTRUCTED DATE:

PUMP INSTALLED DATE: STATIC WATER LEVEL: OWNER WELL NAME:

ADDRESS:

COMMENTS

Back to Report Summary

MAP ID# 43

Distance from Property: 0.40 mi. NE

APPLICANT INFORMATION

RECEIPT #: 9000655

PERMIT #: NAME: COUNTY: AQUIFER: BASIN:

SUBDIVISION:

LOT:
BLOCK:
FILING:
WELL USE:
WELL DEPTH: '
WELL STATUS:
PERMIT ISSUED:

PERMIT EXPIRATION DATE: PLUG & ABANDONED DATE:

WELL CONSTRUCTED DATE: PUMP INSTALLED DATE: STATIC WATER LEVEL: OWNER WELL NAME:

ADDRESS:

COMMENTS

Back to Report Summary

MAP ID# 44

Distance from Property: 0.40 mi. N

APPLICANT INFORMATION

RECEIPT #: 0385925
PERMIT #: 188562
NAME: NOT REPORTED
COUNTY: ADAMS

AQUIFER: LOWER DAWSON
BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED

BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: DOMESTIC
WELL DEPTH: 400'

WELL STATUS: WELL CONSTRUCTED

PERMIT ISSUED: 07/19/1995

PERMIT EXPIRATION DATE: 07/19/1997

PLUG & ABANDONED DATE: NOT REPORTED
WELL CONSTRUCTED DATE: 07/28/1995
PUMP INSTALLED DATE: NOT REPORTED

STATIC WATER LEVEL: 165

OWNER WELL NAME: RICHERS MARK E

ADDRESS: 9980 E 157TH AVE BRIGHTON, 80601

COMMENTS
NOT REPORTED

Back to Report Summary

MAP ID# 44

Distance from Property: 0.40 mi. N

APPLICANT INFORMATION

RECEIPT #: 385925 PERMIT #: 188562 NAME: NOT REPORTED COUNTY: ADAMS

AQUIFER: LOWER DAWSON BASIN: NOT REPORTED SUBDIVISION: NOT REPORTED

LOT: NOT REPORTED **BLOCK: NOT REPORTED** FILING: NOT REPORTED WELL USE: DOMESTIC WELL DEPTH: 400'

WELL STATUS: WELL CONSTRUCTED

PERMIT ISSUED: 7/19/1995

PERMIT EXPIRATION DATE: 7/19/1997

PLUG & ABANDONED DATE: NOT REPORTED

WELL CONSTRUCTED DATE: 7/28/1995 PUMP INSTALLED DATE: NOT REPORTED

STATIC WATER LEVEL: 165

OWNER WELL NAME: RICHERS MARK E

ADDRESS: 9980 E 157TH AVE BRIGHTON, 80601

COMMENTS NOT REPORTED

United States Geological Survey National Water Information System (NWIS)

MAP ID# 45

Distance from Property: 0.40 mi. SE

REPORTING AGENCY: US GEOLOGICAL SURVEY

SITE NUMBER: 395713104512701

STATION NAME: SC00106723BCA USGS 395713104512701

SITE TYPE: WELL

LATITUDE: **39.953595580** LONGITUDE: **-104.858030000**

DATE DRILLED: 1957-11-07
WELL DEPTH: 17.0 FEET
HOLE DEPTH: NOT REPORTED

LOCAL AQUIFER: VALLEY-FILL DEPOSITS

Back to Report Summary

United States Geological Survey National Water Information System (NWIS)

MAP ID# 46

Distance from Property: 0.41 mi. NW

REPORTING AGENCY: US GEOLOGICAL SURVEY

SITE NUMBER: 395753104521601

STATION NAME: SC00206715ADB1 USGS 395753104521601

SITE TYPE: WELL

LATITUDE: **39.964706570** LONGITUDE: -104.871641700

DATE DRILLED: 1955-09-12 WELL DEPTH: 46.6 FEET HOLE DEPTH: NOT REPORTED LOCAL AQUIFER: NOT REPORTED

MAP ID# 47

Distance from Property: 0.43 mi. NE

APPLICANT INFORMATION

RECEIPT #: 9004319

PERMIT #: NAME: COUNTY: AQUIFER: BASIN:

SUBDIVISION:

LOT:
BLOCK:
FILING:
WELL USE:
WELL DEPTH: '
WELL STATUS:

PERMIT ISSUED:

PERMIT EXPIRATION DATE:

PLUG & ABANDONED DATE: WELL CONSTRUCTED DATE:

PUMP INSTALLED DATE: STATIC WATER LEVEL: OWNER WELL NAME:

ADDRESS:

COMMENTS

MAP ID# 48

Distance from Property: 0.45 mi. SE

APPLICANT INFORMATION

RECEIPT #: 51832

PERMIT #: NAME: COUNTY:

AQUIFER: BASIN:

SUBDIVISION:

LOT: BLOCK:

FILING: WELL USE:

WELL DEPTH: '

PERMIT ISSUED:

PERMIT EXPIRATION DATE: PLUG & ABANDONED DATE: WELL CONSTRUCTED DATE:

PUMP INSTALLED DATE: STATIC WATER LEVEL: OWNER WELL NAME:

ADDRESS:

COMMENTS

Back to Report Summary

114 of 125

MAP ID# 48

Distance from Property: 0.45 mi. SE

APPLICANT INFORMATION

RECEIPT #: 0050180
PERMIT #: 50180
NAME: NOT REPORTED

COUNTY: ADAMS

AQUIFER: QUATERNARY ALLUVIUM

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL DEPTH: NOT REPORTED

WELL STATUS: PERMIT ISSUED; COMPLETION STATUS UNKNOWN

PERMIT ISSUED: 09/13/2011

PERMIT EXPIRATION DATE: 12/11/2011

PLUG & ABANDONED DATE: NOT REPORTED
WELL CONSTRUCTED DATE: NOT REPORTED
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED
OWNER WELL NAME: BRIGHTON CITY OF

ADDRESS: C/O TZA WATER ENGINEERS 12596 W BAYAUD AVE #330

LAKEWOOD, 80228

COMMENTS

TWO (2) HOLES TO BE CONSTRUCTED

Back to Report Summary

MAP ID# 48

Distance from Property: 0.45 mi. SE

APPLICANT INFORMATION

RECEIPT #: 50180

PERMIT #: NAME: COUNTY:

AQUIFER:

BASIN: SUBDIVISION:

LOT: BLOCK: FILING: WELL USE: WELL DEPTH: '

WELL STATUS:

PERMIT ISSUED:

PERMIT EXPIRATION DATE: PLUG & ABANDONED DATE: WELL CONSTRUCTED DATE: PUMP INSTALLED DATE: STATIC WATER LEVEL: OWNER WELL NAME:

ADDRESS:

COMMENTS

Back to Report Summary

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MAP ID# 49

Distance from Property: 0.48 mi. NE

APPLICANT INFORMATION

RECEIPT #: 3661633
PERMIT #: 292439
NAME: NOT REPORTED

COUNTY: ADAMS

AQUIFER: LARAMIE FOX HILLS
BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED

WELL DEPTH: NOT REPORTED

WELL STATUS: PERMIT ISSUED; COMPLETION STATUS UNKNOWN

PERMIT ISSUED: 9/5/2013

WELL USE: DOMESTIC

PERMIT EXPIRATION DATE: 9/5/2015

PLUG & ABANDONED DATE: NOT REPORTED
WELL CONSTRUCTED DATE: NOT REPORTED
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED
OWNER WELL NAME: ADER MARVIN M

ADDRESS: NOT REPORTED

NOT REPORTED,

COMMENTS
NOT REPORTED

Back to Report Summary

Order# 59165 Job# 127394 117 of 125

MAP ID# 50

Distance from Property: 0.49 mi. NE

APPLICANT INFORMATION

RECEIPT #: 0057116
PERMIT #: 4577
NAME: NOT REPORTED

COUNTY: ADAMS

AQUIFER: ALL UNNAMED AQUIFERS

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: COMMERCIAL

WELL DEPTH: 31 '

WELL STATUS: WELL CONSTRUCTED

PERMIT ISSUED: 11/25/1974

PERMIT EXPIRATION DATE: **NOT REPORTED**PLUG & ABANDONED DATE: **NOT REPORTED**WELL CONSTRUCTED DATE: **12/06/1974**PUMP INSTALLED DATE: **NOT REPORTED**

STATIC WATER LEVEL: 9

OWNER WELL NAME: GATES CYCLO INC

ADDRESS: 4850 E 39TH AVE DENVER, 80207

COMMENTS
NOT REPORTED

MAP ID# 50

Distance from Property: 0.49 mi. NE

APPLICANT INFORMATION

RECEIPT #: 57116

PERMIT #:
NAME:
COUNTY:
AQUIFER:

BASIN:

SUBDIVISION:

LOT:
BLOCK:
FILING:
WELL USE:
WELL DEPTH:

WELL STATUS: PERMIT ISSUED:

PERMIT ISSUED:
PERMIT EXPIRATION DATE:
PLUG & ABANDONED DATE:
WELL CONSTRUCTED DATE:
PUMP INSTALLED DATE:
STATIC WATER LEVEL:
OWNER WELL NAME:

ADDRESS:

COMMENTS

MAP ID# 51

Distance from Property: 0.49 mi. W

APPLICANT INFORMATION

RECEIPT #: **0454399A**PERMIT #: **53128**NAME: **NOT REPORTED**

COUNTY: ADAMS

AQUIFER: LARAMIE FOX HILLS BASIN: NOT REPORTED

SUBDIVISION: NOT REPORTED

LOT: NOT REPORTED

BLOCK: NOT REPORTED

FILING: NOT REPORTED

WELL USE: MUNICIPAL

WELL DEPTH: 1080'

WELL STATUS: WELL CONSTRUCTED

PERMIT ISSUED: 1/6/2000

PERMIT EXPIRATION DATE: 1/6/2001

PLUG & ABANDONED DATE: NOT REPORTED

WELL CONSTRUCTED DATE: 4/24/2000
PUMP INSTALLED DATE: NOT REPORTED

STATIC WATER LEVEL: 585

OWNER WELL NAME: TODD CREEK METRO DISTRICT #1

ADDRESS: PO BOX 490

BRIGHTON, 80601

COMMENTS

X-REF 49680-F,46216-F,47815-F & 49941-F

Back to Report Summary

Order# 59165 Job# 127394 120 of 125

Wells Database (DWRWELLS)

MAP ID# 52

Distance from Property: 0.50 mi. E

APPLICANT INFORMATION

RECEIPT #: 51830

PERMIT #: NAME: COUNTY: AQUIFER: BASIN:

SUBDIVISION:

LOT: BLOCK: FILING: WELL USE: WELL DEPTH: ' WELL STATUS:

PERMIT ISSUED:

PERMIT EXPIRATION DATE: PLUG & ABANDONED DATE: WELL CONSTRUCTED DATE: PUMP INSTALLED DATE: STATIC WATER LEVEL: OWNER WELL NAME:

ADDRESS:

COMMENTS

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Wells Database (DWRWELLS)

MAP ID# 52

Distance from Property: 0.50 mi. E

APPLICANT INFORMATION

RECEIPT #: 0050179
PERMIT #: 50179
NAME: NOT REPORTED

COUNTY: ADAMS

AQUIFER: QUATERNARY ALLUVIUM

BASIN: NOT REPORTED
SUBDIVISION: NOT REPORTED
LOT: NOT REPORTED
BLOCK: NOT REPORTED
FILING: NOT REPORTED
WELL USE: OTHER

WELL DEPTH: NOT REPORTED

WELL STATUS: PERMIT ISSUED; COMPLETION STATUS UNKNOWN

PERMIT ISSUED: 09/13/2011

PERMIT EXPIRATION DATE: 12/11/2011

PLUG & ABANDONED DATE: NOT REPORTED
WELL CONSTRUCTED DATE: NOT REPORTED
PUMP INSTALLED DATE: NOT REPORTED
STATIC WATER LEVEL: NOT REPORTED
OWNER WELL NAME: BRIGHTON CITY OF

ADDRESS: C/O TZA WATER ENGINEERS 12596 W BAYAUD AVE #330

LAKEWOOD, 80228

COMMENTS

ONE (1) HOLE TO BE CONSTRUCTED

Back to Report Summary

Wells Database (DWRWELLS)

MAP ID# 52

Distance from Property: 0.50 mi. E

APPLICANT INFORMATION

RECEIPT #: 50179

PERMIT #: NAME: COUNTY: AQUIFER:

BASIN:

SUBDIVISION:

LOT:
BLOCK:
FILING:
WELL USE:
WELL DEPTH:

WELL STATUS:

PERMIT ISSUED:

PERMIT EXPIRATION DATE:
PLUG & ABANDONED DATE:
WELL CONSTRUCTED DATE:
PUMP INSTALLED DATE:
STATIC WATER LEVEL:

OWNER WELL NAME: ADDRESS:

COMMENTS

Back to Report Summary

Environmental Records Definitions - FEDERAL

NWIS United States Geological Survey National Water Information System

VERSION DATE: 07/02/14

This USGS National Water Information System database only includes groundwater wells. The USGS defines this well type as: A hole or shaft constructed in the earth intended to be used to locate, sample, or develop groundwater, oil, gas, or some other subsurface material. The diameter of a well is typically much smaller than the depth. Wells are also used to artificially recharge groundwater or to pressurize oil and gas production zones. Additional information about specific kinds of wells should be recorded under the secondary site types or the Use of Site field. Underground waste-disposal wells should be classified as waste-injection wells.

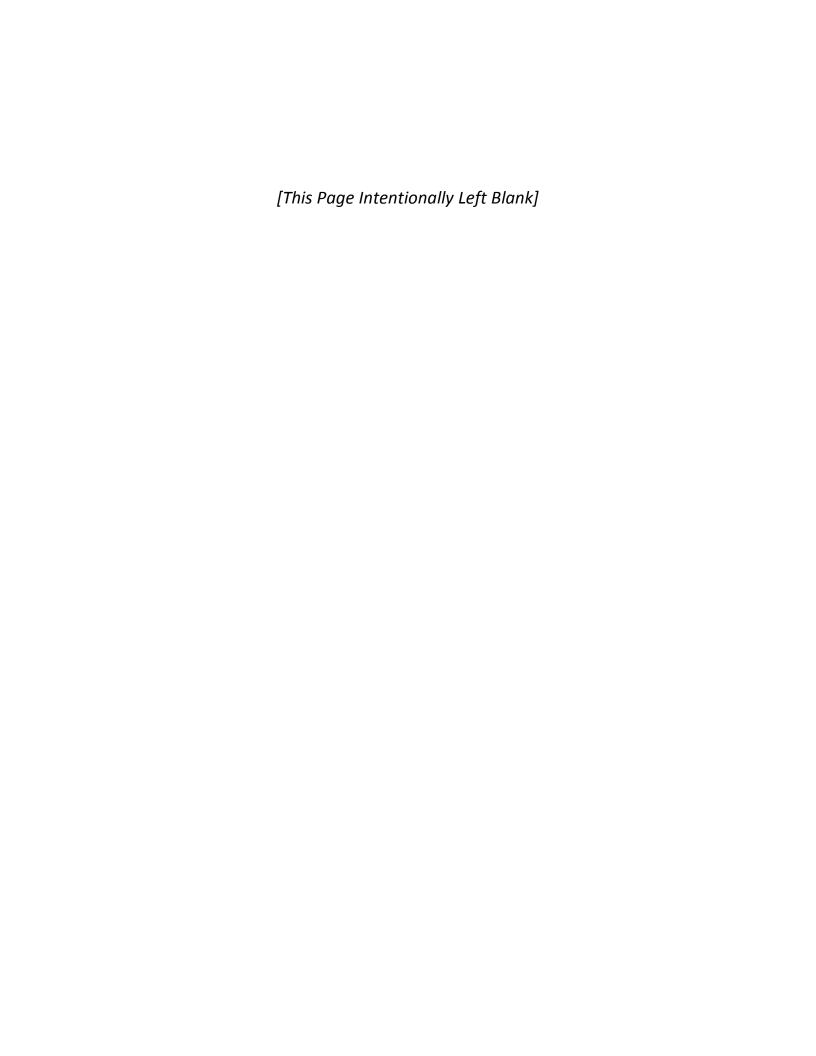
Environmental Records Definitions - STATE (CO)

DWRWELLS Wells Database

VERSION DATE: 09/04/15

The DWR Wells database contains all well permitting data as received by the Colorado Division of Water Resources. The elements included are water well applications, permits issued, and associated data for the well constructed under the permit. The database consists of the dates actions were taken on a well permit as well as some of the physical characteristics of the well, such as depth and yield at the time the well was constructed or the first pump was installed. Currently the entire statewide database includes over 370,000 records.





Treatability Testing Plan Evaluate Effectiveness of ECOBOND® to Reduce Leachability of Lead from Shooting Range Soils October 7, 2016

Purpose and Scope:

The purpose of this Treatability Testing Plan is to evaluate the effectiveness of ECOBOND® at reducing leachability of Lead from the Adams County Shooting Range soils. MT2 reports that ECOBOND® has consistently reduced Lead leachability in soils by 80 to 90%. The goal of this treatability testing study will be to establish a CDPHE-approved Leachate Criterion as determined by the Synthetic Precipitation Leachate Procedure (SPLP, EPA Method 1312) and to establish Calculated Lead Leachability Values for three soil areas within the Shooting Range. On the basis of our discussions with representatives of the Colorado Department of Public Health and Environment (CDPHE), soil that meets the EPA Industrial Risk Regional Screening Level (RSL) for Lead (800 milligrams per kilogram [mg/kg]) and is nonhazardous based on the Toxicity Characteristic Leaching Procedure (TCLP) will be acceptable for placement as gradefill onsite beneath the Water Balance Cover (WBC) planned for installation over the existing landfill. Soil that does not meet the Industrial RSL, is non-hazardous (based on TCLP), and does not meet the "Leachate Criterion" based on SPLP results, will be treated (stabilized for Lead) onsite and reanalyzed for SPLP. If the SPLP result is less than the Leachate Criterion, the soil will be acceptable for placement as gradefill beneath the WBC. A Calculated Lead Leachability Value will be derived by multiplying the SPLP result by a Lead Attenuation Factor. If the Calculated Lead Leachability Value is less than the mutually-agreed Leachate Criterion, the soil will be considered acceptable for use as gradefill beneath the WBC, otherwise the soil will be disposed in accordance with standard manifesting and permitting protocols at a licensed facility offsite.

Definitions:

Calculated Lead Leachability Value (milligrams per liter [mg/L]) – Calculated by multiplying the SPLP Result by the Lead Attenuation Factor. This value is the predicted Lead leachate concentration at the water table interface after taking into account the leaching of Lead from the gradefill (as determined by TCLP) and the Lead Attenuation Factor.

Leachate Criterion (mg/L) – The maximum leachate concentration that will be accepted for Lead-impacted soil to be placed as gradefill beneath the WBC. We will discuss with CDPHE what value is acceptable to prevent adverse impact to local groundwater. CDPHE has indicated that a value of 1.1 mg/L may be appropriate as that is CDPHE's Groundwater Protection Value for dissolved Lead.

Lead Attenuation Factor – A factor that accounts for the reduction of Lead concentration in leachate as it moves through the vadose zone between the bottom of lead-impacted soil and the water table. CDPHE has indicated that the "22 times Rule" may be applied to this site provided that groundwater is one meter or more below waste and the nearest water well is more than ten meters from the downgradient edge of waste). The rule is applied by multiplying the Lead groundwater standard (0.05 milligrams per liter [mg/L]) by 22, which in this case for Lead is equivalent to the Leachate Reference Concentration (1.1 mg/L) in CDPHE's Groundwater Protection Values Soil Cleanup Table, March 2014. If an alternative modeling approach is proposed, CDPHE concurrence will be obtained prior to use.

SPLP Result (mg/L) – The laboratory-determined Lead leachability of the soil. Distilled water, instead of acidic water, will be used as the extracting solution. Distilled water is believed to be more representative of the neutral pH of soil water in the Lead-impacted soil gradefill after percolating through overlying WBC and clean gradefill layers.

Treatability Study:

The attached preliminary table provides an estimate of the volumes of soil onsite that could contain total Lead concentrations above the Industrial RSL. Approximately 1,600 cubic yards (cy) of soil contain total Lead at concentrations greater than the Industrial RSL for Lead. This soil is potentially suitable for treatment to reduce Lead leachability. For the purposes of this Treatability Testing Plan, we assume that ECOBOND® will be used to stabilize Lead. Representative soil samples will be collected and treated with ECOBOND® to evaluate the amendment's ability to reduce Lead leachability. Two ECOBOND® mixture ratios will be tested to evaluate the effectiveness of Lead stabilization at different ECOBOND® concentrations.

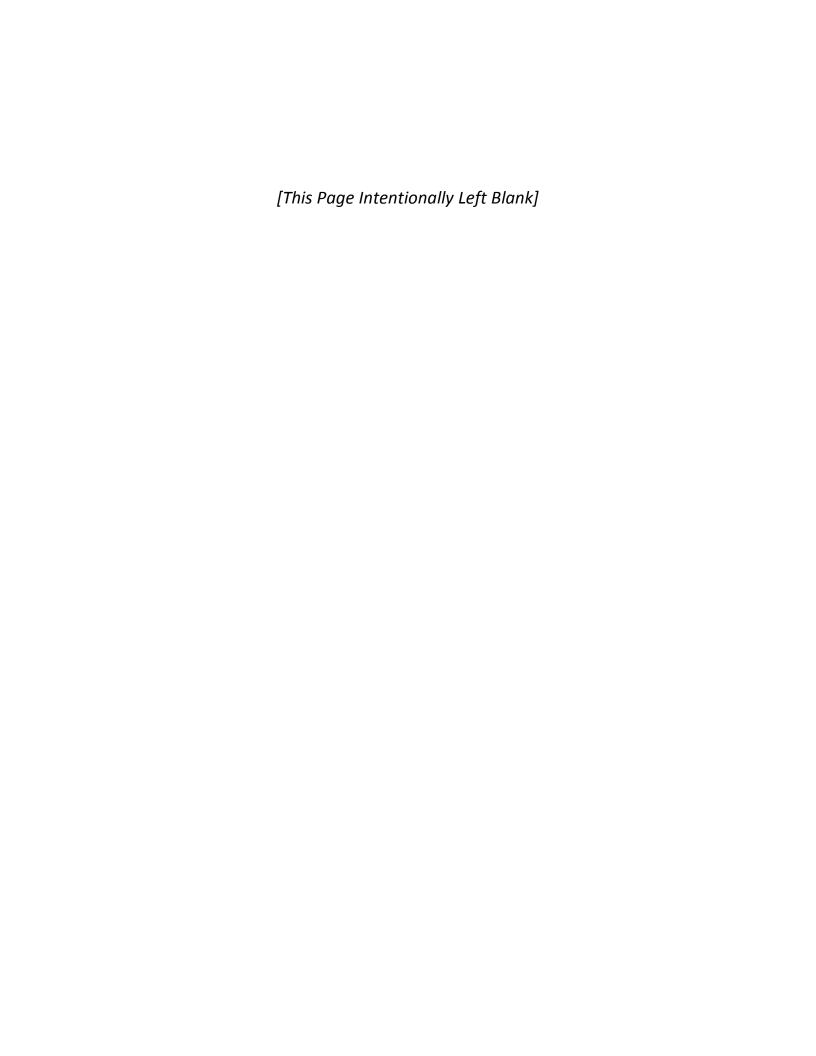
Method:

- 1. Surface soils in Shooting Range grids SRIB-11, SRIB-6, and SRRF-4 were initially sampled and contained total Lead concentrations of 170,000, 34,000 and 3,900 mg/kg, respectively. Sampling results from these three grids display a broad range in total Lead concentrations, believed to be generally representative of conditions at the Shooting Range; and accordingly, were selected for treatability testing. One soil sample from each grid will be collected from near the original sample location with the intention of obtaining similar total Lead concentration results. The soil sample (3 to 4 gallons in size) will be collected at the same original sample depth. Each sample will be thoroughly mixed and split into three subsamples. One subsample will be untreated, one subsample will be treated with 1% ECOBOND® by weight, and one subsample will be treated with 2% ECOBOND® by weight. This procedure will produce a total of nine subsamples (three subsamples from each grid).
- 2. The nine subsamples will be submitted to Test America for analysis.
 - a. The untreated sample will be analyzed for total Lead (EPA 6010), dissolved Lead by TCLP (EPA Method 1311), and dissolved Lead by SPLP (EPA Method 1312).
 - b. The two treated samples will be analyzed for dissolved Lead by TCLP (EPA Method 1311), and dissolved Lead by SPLP (EPA Method 1312).
- 3. The calculated Lead Leachability Value will be derived for each subsample using the "22 times Rule" or vadose zone transport model approved by CDPHE.
- 4. Regression analyses will be performed to establish relationships between total Lead concentration (expressed in mg/kg) and calculated Lead Leachability (expressed in mg/L). These results will be used to estimate the percentage of the 1,600 cy of soil that is potentially treatable so that the material can remain onsite as gradefill beneath the WBC, while remaining protective of human health and the environment.

Lead-Impacted Soil Remediation Volumes Date: 10/3/16

Remediation Waste Type				uc	iti	ezi	ilic	le:	ıs	əti	ļsu	10	or	j e	ÞΙΦ	tal	de	900	90	۱۱۸	вi	ц	əţ	od	ı Ii	os		
Potential Remediation Volume (bcy)		1,574																										
No. of Polygons															27													
Notes	sample being reanalyzed	SPLP/EcoBond Testing							SPLP/EcoBond Testing										SPLP/EcoBond Testing									
Volume of Excavation for Entire Polygon (cubic yards)	0.0	53.8	39.7	55.6	54.2	209.1	28.1	41.7	11.7	52.9	28.1	39.8	27.6	50.5	209.1	17.9	18.9	20.2	83.7	42.3	80.8	102.2	95.5	11.7	77.5	43.4	54.2	23.7
Volume of Volume of Excavation for Excavation for Entire Polygon Entire Polygon (cubic yards)	0.0	1,453.4	1,072.1	1,502.1	1,462.4	5,645.3	757.9	1,126.9	316.3	1,428.2	757.9	1,075.1	744.7	1,362.9	5,645.3	482.2	8.605	546.5	2,259.8	1,141.7	2,182.6	2,758.9	2,579.5	316.3	2,092.7	1,172.1	1,462.4	6412
Excavation Cut Depth (feet)	0.0	2.0	0.5	2.0	2.0	1.0	1.0	1.5	0.5	2.0	1.0	1.5	1.0	2.0	1.0	0.5	0.5	0.5	0.5	0.5	9.0	0.5	0.5	0.5	0.5	0.5	2.0	0.5
Excavation Cut Excavation Cut Depth (inches)	0.0	24.0	0.9	24.0	24.0	12.0	12.0	18.0	6.0	24.0	12.0	18.0	12.0	24.0	12.0	6.0	6.0	0.9	6.0	0.9	0.9	0.9	6.0	6.0	6.0	6.0	24.0	90
Total Lead (mg/kg)	NA	170,000	150,000	130,000	86,000	55,000	52,000	34,000	34,000	34,000	32,000	30,000	25,000	18,000	5,800	5,400	4,600	4,000	3,900	2,400	2,400	2,200	1,800	1,400	1,200	086	086	940
Sample Collection Depth (inches)	0	0	0	0	0	0	9	0	3	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	18	C
Area of Polygon (sq ft)	1,573.9	726.7	2,144.2	751.1	731.2	5,645.3	757.9	751.3	632.5	714.1	6'252	716.7	744.7	681.5	5,645.3	964.4	1,019.7	1,093.0	4,519.6	2,283.4	4,365.1	5,517.8	5,159.1	632.5	4,185.4	2,344.1	731.2	1 282 3
Sample (Grid) ID	NRBB-5	SRIB-11	SRSF-4NW	SRIB-8	SRIB-10	SRRF-7	NRIB-1	NRIB-2	SRIB-6	SRIB-9	NRIB-1	NRIB-3	SRIB-7	SRIB-12	SRRF-7	SRLB-60	SRLB-70	SRLB-50	SRRF-4	SRBB-6	SRRF-3	SRRF-6	SRRF-8	SRIB-6	SRRF-2	SRBB-5	SRIB-10	SRI B-21

Appendix S - Conceptual Landfill Closure Plan



Memorandum



Date: October 31, 2016

To: John Dellaport, PE, PG, Quantum Water & Environment

From: Joshua Lee, PE

Bradley A. Coleman, PE

Subject: Adams County Shooting Range Landfill Closure, Adams County, Colorado

INTRODUCTION

Burns & McDonnell has prepared this memorandum as a subcontract deliverable for Quantum Water and Environment (Quantum). It has been prepared to present the conceptual design for the closure of the landfill located adjacent to the Adams County Shooting Range located at 14451 Riverdale Road in unincorporated Adams County, Colorado. Adams County owns the shooting range and the landfill. The County is planning to remove several buildings and miscellaneous structures/debris on the property and then remediate the shooting range and close the landfill. Others are designing/planning the demolition/removal of structures and the remediation of the shooting range. The scope of this memorandum is to provide the conceptual design of the closure of the property within the landfill limits only.

BACKGROUND

The overall property covers just under 30 acres. It is bounded to the north by open land containing oil and gas wells, to the south and west by residential property, and to the east by Riverdale Road. Within the property limits, the landfill is located on roughly 16 acres in the northwest portion of the property. Earlier this year, Quantum mapped the landfill limits as part of their overall site assessment. The landfill limits abuts the west property line and is bounded by open ground on the east and the shooting range to the south. The landfill limits extend slight north of the north property lines. This waste will require consolidation onto the landfill within the property limits. Drawing C001 in Attachment A shows the existing conditions at the site.

In early 2016, Quantum issued a Phase I Environmental Site Assessment (ESA), (Quantum, 2016). Based on information in the Phase I ESA, the landfill operated between 1970 and 1977, and accepted "sanitary" waste, sludge, construction debris, and fly ash. According to historical aerial photographs, the property consisted of undeveloped land through 1964 with site grading activities and/or landfilling operations visible as early as 1971. The property, including the landfill area, has been used for oil and gas production since 1982. The shooting range operated from 1959 to 1970 and from 1993 until approximately 2012.

Quantum has broken the overall site closure into three projects:

- Building Demolition and Debris Removal
- Firing Range Remediation
- Landfill Closure



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These projects will be bid separately and likely be performed by different contractors. As part of the shooting range remediation, the contractor will be placing and compacting treated soil meeting CDPHE-approved criteria as gradefill on the landfill area. Additionally, Anardarko Petroleum Corporation (Anardarko) and the Colorado Oil and Gas Conservation Commission (COGCC) will be removing and/or abandoning several oil and gas structures that exist in the landfill area.

CONCEPTUAL CLOSURE DESIGN

The closure of the landfill will consist of the following activities:

- 1. Waste placement compaction and grading consisting of:
 - a. Excavation of waste from outside the north property limits and placement and compaction of this waste within the property limits and on top of the existing landfill
 - b. Spreading and compacting of any debris remaining after removal of the onsite buildings, and other structures.
 - c. Placement and compaction of other waste excavated as part of drainage improvements or as necessary to meet design grades.
 - d. Placement and grading of an interim cover soil over the waste until final cover can be constructed over it.
- 2. Construction of a storm drain system to replace the existing 30-inch corrugated metal pipe (CMP) under the landfill. This pipe routes drainage from the upgradient Todd Creek Farm development. Efforts to videotape the existing pipe length were unsuccessful due to partial blockages as the pipe has extensive debris in it and shows evidence of collapse.
- 3. Abandonment of the existing 30" CMP and any remaining pipes or conduits left over from the structures removal and oil facility removals.
- 4. Construction of a water balance cover (WBC) over the regraded landfill surface.
- 5. Installation of storm water management structures for the conveyance of runoff from the landfill cover.
- 6. Revegetation of the constructed landfill cover.
- 7. Installation of methane monitoring probes around the landfill perimeter.
- 8. Construction quality assurance (CQA) by Quantum and its subcontractors will be performed during all the above activities.

The design and construction will be in general accordance with the Colorado Department of Public Health and Environment (CDPHE) *Regulations Pertaining to Solid Waste Sites and Facilities* (CDPHE, 2015) and the CDPHE's *Final Guidance Document, Water Balance Covers in Colorado* (CDPHE, 2013). These documents hereafter are referred to as the "Solid Waste Regulations" and the "WBC Guidance," respectively.



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The following attachments are included as part of this memorandum:

- Attachment A Conceptual Design Drawings. In Attachment A, Drawing C001 shows
 the existing site conditions as of October 2016, Drawing C002 is the conceptual Gradefill
 Grading Plan showing the top of waste/bottom of cover design grades, and Drawing
 C003 shows the conceptual Final Cover Grading Plan and a typical WBC section for the
 final cover.
- Attachment B Preliminary List of Technical Specifications
- Attachment C Preliminary CQA Plan Outline
- Attachment D Preliminary Budgetary Cost Estimate

The remainder of this memorandum describes the conceptual design for the project.

Gradefill Placement and Grading

The term "gradefill" as used in this memorandum means any soil, waste, or debris placed on top of the existing landfill for the purposes of achieving design grades. As previously mentioned, gradefill will be placed over the existing landfill mass from the following sources:

- The treated soil from the remediation of the shooting range. This soil is currently planned to be placed in the northern shooting range area by the shooting range remediation contractor.
- The waste placed north of the northern property limits. This waste will be excavated and placed on the landfill within the property limits.
- Any miscellaneous waste or debris remaining after demolition/removal of the site structures.
- Any waste excavated as part of the CMP abandonment and replacement.
- Clean soil placed over the waste as an interim cover prior to final cover placement.
- Any additional soil required to achieve those grades shown on the final Gradefill Grading Plan.

Drawing C002 presents our conceptual grading plan for the gradefill. It currently accommodates about 6,000 cubic yards of gradefill. This might require modification if additional gradefill requirements are identified as the design progresses. Surface slopes of the gradefill vary from 1.5 to 25 percent. Also note that the drawing reflects the northern waste limits moving south to the property line.

CMP Replacement

The storm water from the property currently generally flows to the east. Site elevation are lowest near the midpoint of the eastern boundary and rise toward the south, west and north boundaries. Runoff from the site is conveyed across Riverdale road through a 30-inch CMP to the Brantner ditch. A portion of the site in the southeastern corner of the site drains to an existing riprap basin



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and discharges through an 18-inch pipe to the ditch on the west side of Riverdale Road. The flows in the ditch are conveyed south of the site.

Prior to the placement of waste on the property, the site was the mouth of a narrow valley that extended approximately 4400 feet to the west. In order to convey the flows from the upstream properties to the river, a 30-inch CMP was installed prior to the placement of waste. The inlet of the CMP is situated near the midpoint of the west boundary and flows east approximately 920 feet discharging just upstream of the CMP under Riverdale Road as shown on Drawing C001 in Attachment A. As part of the site assessment, the CMP under the landfill was investigated with CCTV camera equipment. The equipment could not advance the camera past 100 feet from each end due to obstructions. The pipe was also found to be collapsed and deteriorating but is assumed to still transmit some drainage as no ponding water has been observed this year upgradient of the pipe.

Due to the surrounding topography, the conveyance of the storm water runoff from the Todd Creek development must continue to be conveyed through the Adams County property, therefore replacement of the existing CMP or other means of storm water conveyance is necessary and will be included in this design. Based on the chosen design storm, runoff flow rates and volumes will be calculated and the conveyance through the property will be sized accordingly. One option is to bore a new casing pipe through the landfill on an alignment that would reduce the amount of pipe needed under the landfill to approximately 525 feet. The alignment would start at the existing inlet of the CMP and advance to the southeast exiting the landfill limits to the west of the armory building as shown on Drawings C002 and C003. The casing pipe would be steel and would be large enough to slide the carrier pipe though on spacers. The carrier pipe would be polyvinyl chloride (PVC) or high-density polyethylene (HDPE) and would be sized to accommodate the required flows. By changing the alignment this option would likely allow some of the boring to take place in native soils.

Another option that is being evaluated is the excavation of the waste along the optimized alignment described above and shown on the drawings. This would allow a drainage swale to be constructed along the alignment to transmit the drainage. Side slopes of the excavation would be 4:1 (horizontal to vertical) or flatter and capped with the final cover. This option would require the excavation of a significant amount (up to 92,000 cy) of waste that would need to be placed as gradefill or disposed of at an approved off-site landfill. This option if selected would require revision of Drawing C002 and C003 to reflect the revised grading conditions.

Substantial cost will be involved in either option. As a next step, we recommend that vertical borings be performed every 50 feet along the optimized alignment to the depth of the proposed pipe/channel to aid in the evaluation of the options. This information will then be used to refine the cost estimates and technical specifications for either option.



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Final Cover Construction

The WBC will be designed in accordance with the WBC Guidance. A borrow source for the WBC has not been identified so therefore a design thickness is not yet known. Drawing C003 assumes that the cover will be 3-feet thick. The final cover design, construction, and CQA requirements will all be consistent with the WBC Guidance except where otherwise approved by CDPHE.

The completed cover will be amended and vegetated with native grasses in accordance with County requirements.

Surface water controls will be designed and incorporated into the landfill cover surface to provide long-term erosional resistance. It is anticipated that a combination of terraces, swales, and possibly let-down channels will be incorporated into the design. Linings for these conveyances will be selected based on slope and the design flow. Linings will be either grasses, temporary or permanent erosion mats, and possibly riprap. These will be designed once the CMP replacement option is selected and the final cover grading plan finalized.

Landfill Gas Monitoring Probe Installation

The Solid Waste Regulations require landfill gas (LFG) monitoring be performed at the landfill perimeter. Monitoring probes will be designed and installed along the landfill perimeter to meet these requirements. These locations will be monitored in accordance with the post-closure operations, maintenance, and monitoring (OM&M) plan, which will be submitted under separate cover.

CONSTRUCTION QUALITY ASSURANCE

The CQA plan outline for the landfill closure is provided in Attachment C. The scope of the CQA plan will include the following activities:

- Waste excavation and gradefill placement
- CMP replacement
- Final cover placement and vegetation
- Surface water controls installation

The CQA plan will set forth the CQA requirements to be implemented during landfill closure to verify that the construction is completed in accordance with the design drawings and technical specifications. In addition, the plan will define CQA roles, definitions, documentation, meeting, and reporting requirements. Once the closure is completed, a CQA certification report will be submitted to CDPHE. The CQA report will include completed documentation forms, a summary of construction activities, drawings indicating sample and test locations, field and laboratory test results, as-built surveys, a summary of deviations from the contract documents, justification for



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the changes, and a description of construction problems and how they were resolved. Additionally, a registered Professional Engineer licensed in the State of Colorado will certify that the construction was conducted in substantial conformance with the approved construction documents.

NEXT SUBMITTAL

As discussed with CDPHE, we plan to meet with CDPHE and present the intermediate (60 percent) design package and gain real time feedback. If possible, the 60 percent design documents will be emailed out ahead of the meeting. The next formal submittal will be to Adams County of the draft (90 percent) design submittal and will include a completed set of design drawings, technical specifications, and the CQA plan. Once Adams County's comments are incorporated, a draft final (95 percent) design submittal will be made to CDPHE. After incorporation of CDPHE comments, the final (100 percent) design package will be compiled and provided to all parties.

REFERENCES

Colorado Department of Public Health and Environment. *Regulations Pertaining to Solid Waste Site and Facilities, 6 CCR 1007-2.* December 30, 2015.

Colorado Department of Public Health and Environment. *Final Guidance Document, Water Balance Covers in Colorado*. March 2013.

Quantum Water & Environment. *Phase I Environmental Site Assessment, Adams County Shooting Range*. January 19, 2016.

ATTACHMENTS

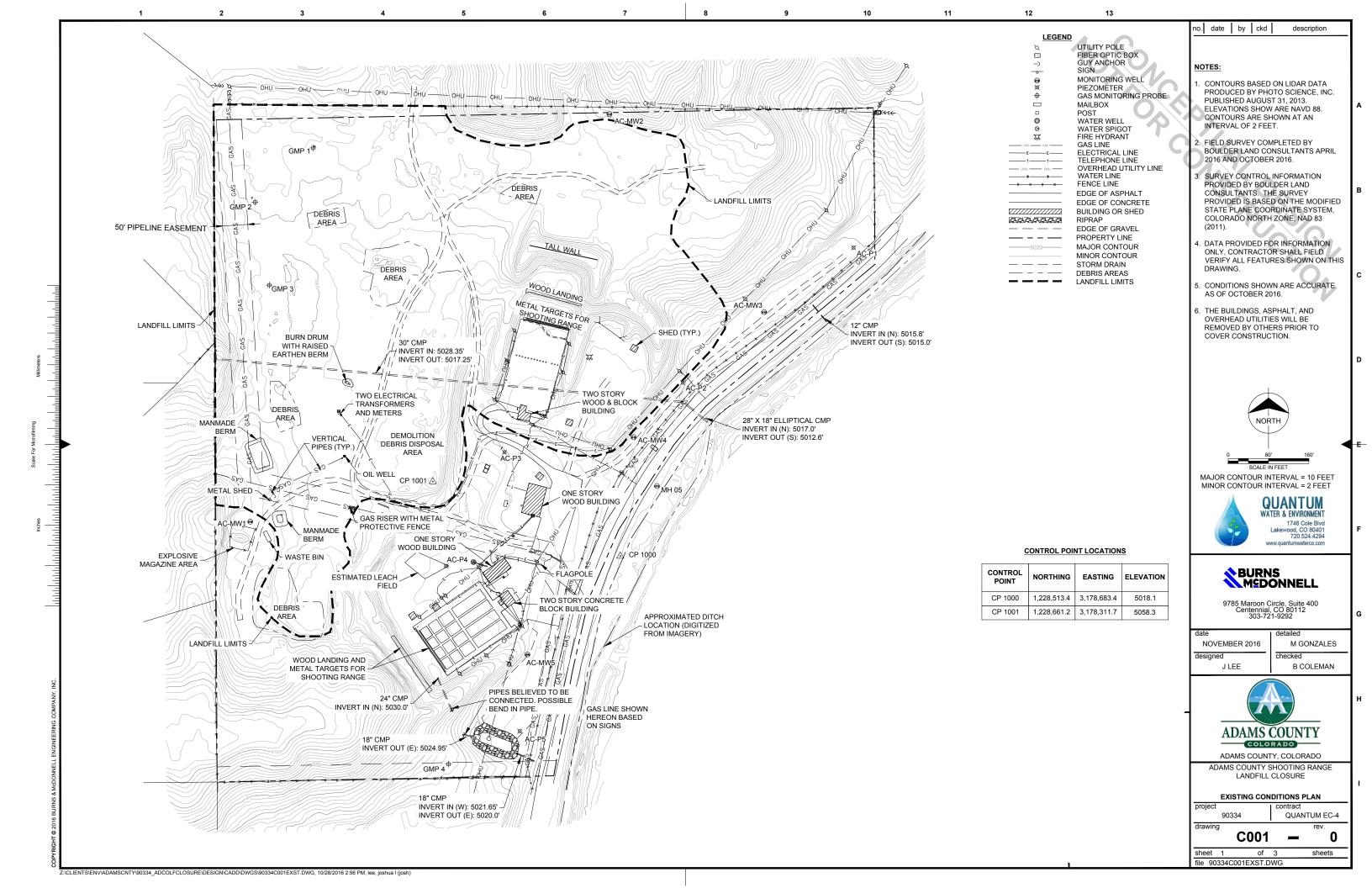
Attachment A – Conceptual Design Drawings

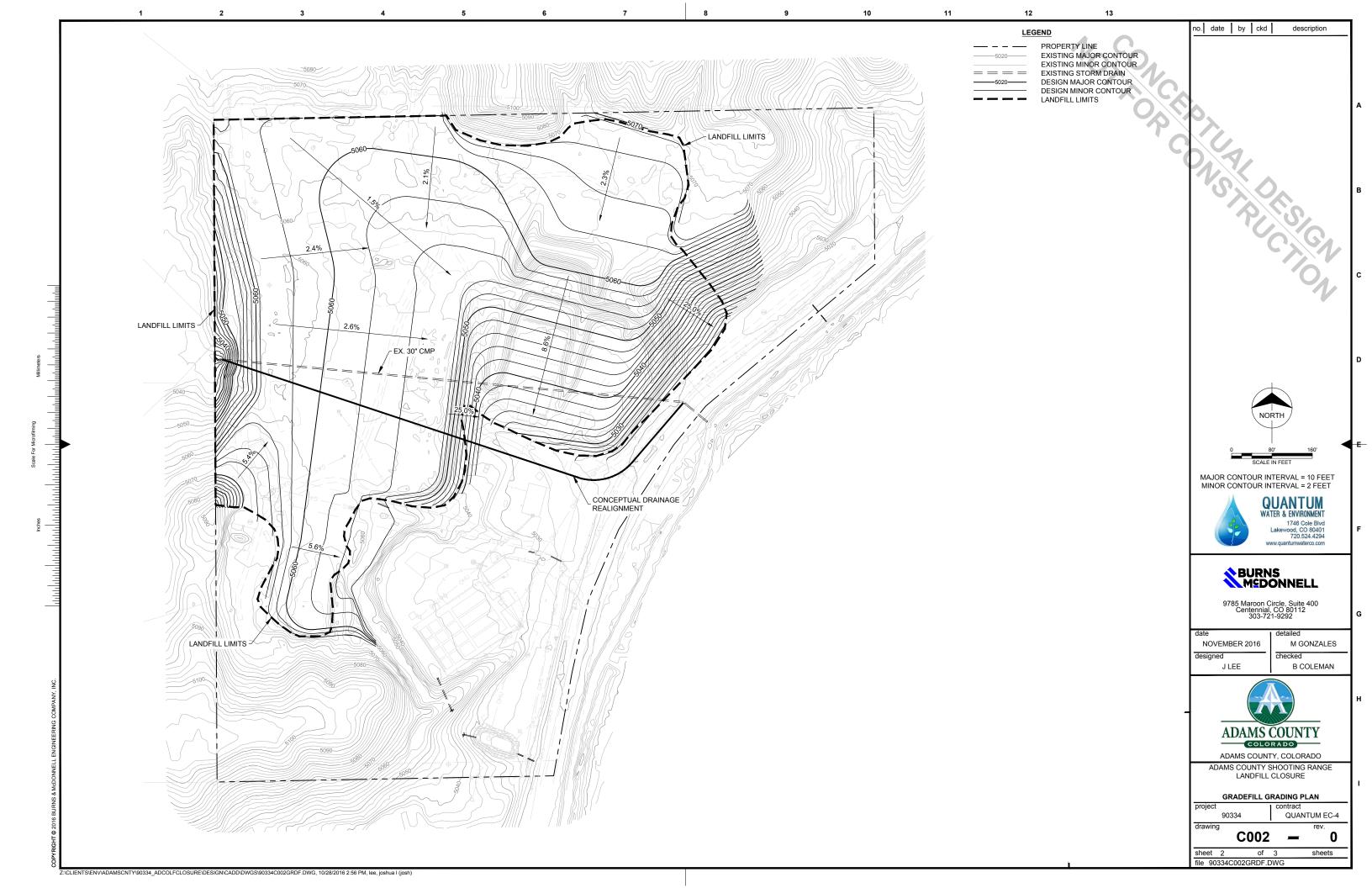
Attachment B – Preliminary List of Technical Specifications

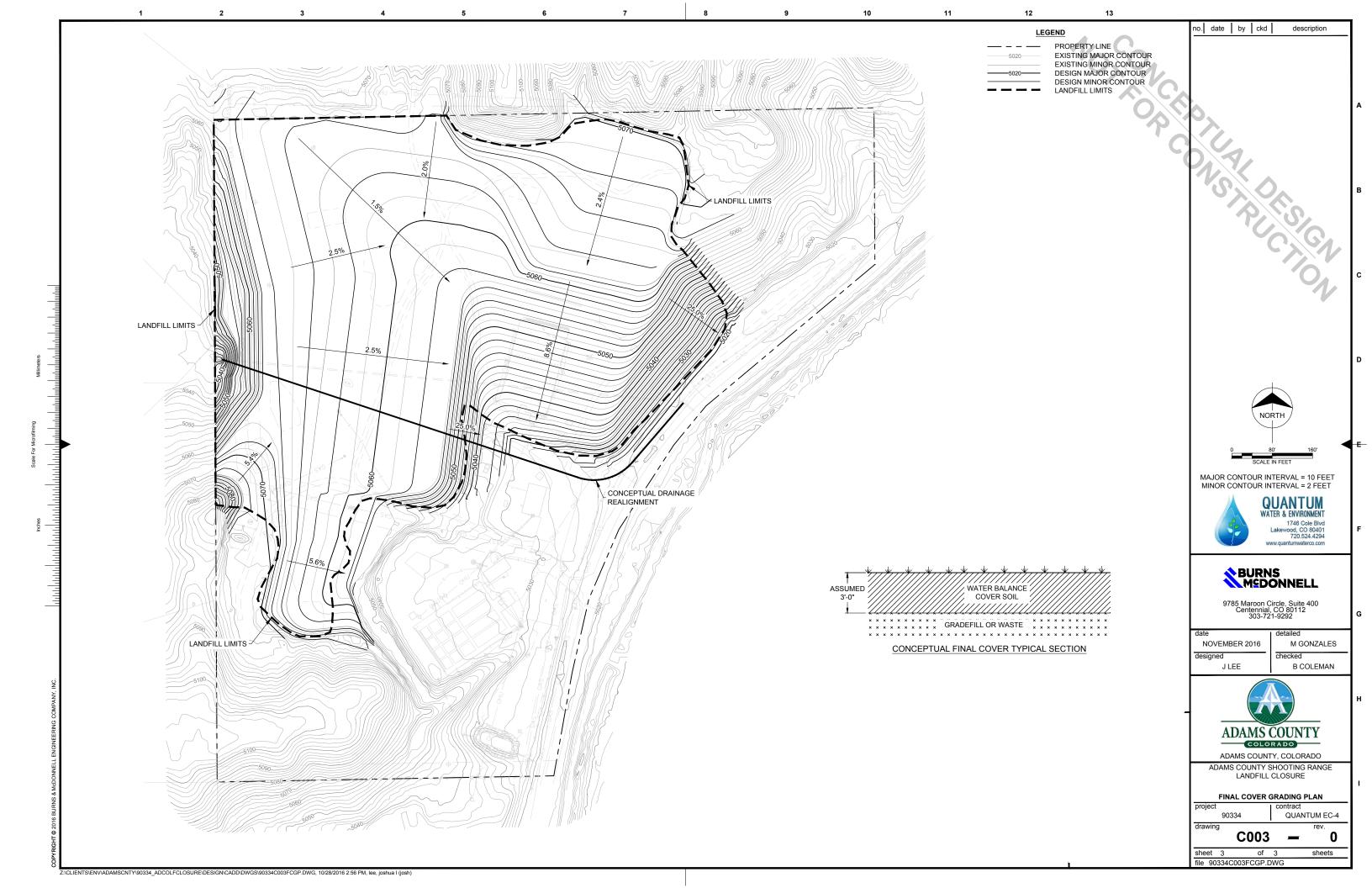
Attachment C – Preliminary CQA Plan Outline

Attachment D – Preliminary Budgetary Cost Estimate

Attachment A Conceptual Design Drawings







Attachment B Preliminary List of Technical Specifications

Adams County, Colorado Shooting Range Landfill Closure Project No. 90334

Specification Index

Section	Chapter Title
Identification	Chapter Title

Division 1

Section 011100 Summary of Work

Other sections to be coordinated with Adams County

Division 31

Section 312050 Earthwork Section 312051 Waste Exca

Section 312051 Waste Excavation and Placement Section 313211 Soil Surface Erosion Control

Division 32

Section 323100 Fences and Gates Section 329200 Revegetation

Division 33

Section 334000 Storm Drainage Utilities (may be more depending on option selected)

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Attachment C Preliminary CQA Plan Outline

OUTLINE

CONSTRUCTION QUALITY ASSURANCE PLAN ADAMS COUNTY SHOOTING RANGE LANDFILL CLOSURE

1.0 INTRODUCTION

- Project description
- Scope of plan

2.0 DEFINITIONS AND KEY ROLES

- Definitions of terms
- Identification of key roles, responsibilities, and qualifications

3.0 MEETINGS

 Description and required attendees at pre-construction and/or preparatory meetings, progress meetings and deficiency meetings

1

4.0 GRADEFILL QUALITY ASSURANCE

Waste excavation and placement

5.0 EARTHEN MATERIAL QUALITY ASSURANCE

- Gradefill (waste, soil, debris) placement
- Common fill placement
- Final cover construction

6.0 STORMWATER CONTROLS QUALITY ASSURANCE

- CMP abandonment
- CMP replacement
- Riprap placement (if necessary)
- Erosion mat installation (if necessary)

7.0 VEGETATION QUALITY ASSURANCE

- Soil amendment
- Seeding

8.0 SURVEYING

- Survey control
- As-built surveys

9.0 DOCUMENTATION

- Field forms
- Meeting minutes
- Submittals
- Design changes
- Certification report

6.0 REFERENCES

• Documents used in the development of the plan

Attachment D Preliminary Budgetary Cost Estimate

Attachment D Preliminary Budgetary Estimate Adams County Shooting Range Landfill Closure Adams County, Colorado

Item	Unit	U	nit Cost	Quantity	Т	otal Cost	Remarks
Design Cost							
Finalize Design & Administer Bidding Design Subtotal	ls	1	100000	1	\$ \$	100,000 100,000	Evaluate/select storm drainage option, prepare design docs, negotiate CDPHE approval, administer bidding
Construction Cost						,	
Cover							
Mobilization/Demobilization	ls		10%	1,478,000	\$	147.800	% of other construction cost items (includes bond costs)
Site Preparation	ac	\$	2,000	16	\$		Clear and Grub, Strip 3" Topsoil and stockpiling Needed grading to establish free-draining landfill slopes
Site Grading/Waste Relocation	су	\$	7	50,000	\$	350,000	between 1% to 25%. Includes compaction Quantity includes 20% fluff/loss factor; cost to excavate and haul from Thorton site (will increase substantially if further
Cover Soil Import	су	\$	4	95,000	\$	380,000	· ·
Cover Soil Placement	су	\$	3	95,000	\$	285,000	near point of placement
Permanent Storm Water Controls	ls	\$	250,000	1	\$	250,000	Drainage channel and detention basin construction Dust control, check dams, temp. erosion mat, vehicle tracking
Temporary Erosion Controls	ls	\$	75,000	1	\$	75.000	controls, and silt fence
Revegetation	ac	\$	3,500	16	\$		Seed, fertilizer, amendments, and mulch
As-built Surveys	ls	\$	50,000	1	\$	50,000	
Contingency			25%		\$	406,450	used 25% due to unknowns
Cover Construction Subtotal					\$	2,032,250	
CMP Replaced with New Pipe Option							
Mobilization/Demobilization	ls		10%	772,500	\$	77,250	
Boring new storm drain	lf	\$	1,300	525	\$	682,500	Assumes alignment toward existing armory, steel casing pipe with HDPE or PVC carrier pipe on spacers assumes standard installation of RCP pipe and manholes 10'-
RCP storm drain to outfall	lf	\$	200	450	\$	90,000	15' deep
Contingency	11	Ψ	25%	430	\$		used 25% due to unknowns
New Pipe Construction Subtotal			2370		\$	1,062,188	used 25% due to diffilowits
•					l .	,,	
CMP Replaced with Open Channel Option Mobilization/Demobilization	ls		10%	620,000	\$	62,000	% of other construction cost items (includes bond costs) Needed grading to establish free-draining landfill slopes
			_				between 2% to 25%. Includes compaction. Assumes onsite
Waste Excavation and Relocation	cy	\$	2.50	70,000	\$		relocation and no asbestos.
Native Soil Excavation and Relocation	cy	\$	2.50	22,000	\$	55,000	
Channel Stabilization	ls	\$	75,000	1	\$		Assumes permanent erosion mat
Contingency Open Channel Construction Subtotal			25%		\$ \$	170,500 852,500	used 25% due to unknowns
Construction Management & Oversight						•	
Construction Management & Oversight							Assumes County hires CM to coordinate/manage
Construction Management	ls		5%	3,094,438	\$	154.722	subcontractors. Full time site manager, trailer, pickup
	,		2,0	2,071,100	ľ	10 1,722	Full time oversight during all landfill closure activities,
							submittal review, design change requests, cert report.
							Typically ranges from 5-10% of construction cost. costs are
CQA Oversight by Engineer	ls		6%	3,094,438	\$	185,666	71 7 0
CM and CQA Subtotal	1				\$	340,388	*

Total with New Pipe Option:

Total with Open Channel Option:

\$ 3,500,000 (see note)

\$ 3,300,000 (see note)

Note: The quantities, unit costs, and cost items are all subject to significant change as the design progresses. **These values should only be used for preliminary budgeting purposes only.** This cost estimate will be refined as the design progresses. An official engineer's opinion of probable construction cost will be generated at the 100% design level.

Abreviations

ac: acre lf: linear foot cy: cubic yard ls: lump sum