

# Montana State Legislature

**2015 SESSION**

## **ADDITIONAL DOCUMENTS**

**May include the following:**

**Business Page**

[Signed by Chairman]

**Roll Call**

**Standing Committee Reports**

**Tabled Bills**

**Fiscal Reports**

**Rolls Call Votes**

**Proxy Forms**

**Visitor Registrations**

**\*Any other documents, which were submitted after the committee hearing has ended and/or was submitted late [within 48 hours], regarding information in the committee hearing.**

**\*Witness Statements that were not presented as exhibits.**

**Montana Historical Society Archives**

**225 N. Roberts**

**Helena MT 59620-1201**

**2015 Legislative**

**E-Document Specialist Susie Hamilton**

**BUSINESS REPORT**

**MONTANA SENATE  
64th LEGISLATURE - REGULAR SESSION**

**SENATE NATURAL RESOURCES COMMITTEE**

**Date:** Wednesday, April 8, 2015  
**Place:** Capitol

**Time:** 3:00 PM  
**Room:** 303

**BILLS and RESOLUTIONS HEARD:**

HB 434 - Revise asbestos laws - Rep. Ed Lieser

HB 590 - Revise state finance laws to received proceeds from Libby Dam water storage/use -  
Rep. Mike Cuffe

HJ 13 - Interim study of federal roads and parcels and access - Rep. Kerry White

SR 5 - Confirm Governor's appointment related to environmental quality and review - Sen. Chas  
Vincent

**EXECUTIVE ACTION TAKEN:**

SJ 17: Table

HB 46: Table

HB 519: Table

HB 434: Be Concurred In

HB 525: Be Concurred In

SR 5 : Do Pass

**Comments:**



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SEN. Chas Vincent, Chair

**MONTANA STATE SENATE**  
***Roll Call***  
**NATURAL RESOURCES COMMITTEE**

DATE: April 8, 2015

<u>NAME</u>	<u>PRESENT</u>	<u>ABSENT/ EXCUSED</u>
SENATOR RICK RIPLEY, VICE CHAIR	X	
SENATOR CHRISTINE KAUFMANN	X	
SENATOR DUANE ANKNEY	X	X
SENATOR JOHN BRENDEN	X	
SENATOR PAT CONNELL	X	
SENATOR JENNIFER FIELDER	X	
SENATOR BRADLEY MAXON HAMLETT		X
SENATOR BRIAN HOVEN	X	
SENATOR JIM KEANE	X	
SENATOR CLIFF LARSEN	X	
SENATOR MIKE PHILLIPS	X	
SENATOR CHAS VINCENT, CHAIR	X	

## BILL TABLED NOTICE

### SENATE NATURAL RESOURCES COMMITTEE

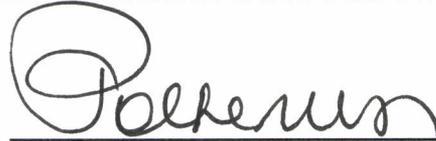
The **SENATE NATURAL RESOURCES COMMITTEE** TABLED

**HB 46 - Revise rental payment calculation for commercial lease of state trust land - Rep. Mitch Tropila**

**HB 519 - Generally revise exempt well laws - Rep. Carl Glimm**

**SJ 17 - Interim study regarding coal phase-out - Sen. Mike Phillips** by motion, on **Wednesday, April 8, 2015** (PLEASE USE THIS ACTION DATE IN LAWS BILL STATUS).

  
\_\_\_\_\_  
(For the Committee)

  
\_\_\_\_\_  
(For the Secretary of the Senate)

7:00a / 4/9  
(Time) (Date)

April 8, 2015 (8:18pm)

Julie Emge, Secretary

Phone: 444-1527



SENATE STANDING COMMITTEE REPORT

April 8, 2015  
Page 1 of 1

Madame President:

We, your committee on **Natural Resources** report that **House Bill 434** (third reading copy -- blue) **be concurred in.**

Signed:   
*Senator Chas Vincent, Chair*

To be carried by Senator Christine Kaufmann

- END -

**Committee Vote:**

**Yes 11, No 1**

Fiscal Note Required  X

HB0434001SC14470.spt



SENATE STANDING COMMITTEE REPORT

April 8, 2015

Page 1 of 1

Madame President:

We, your committee on **Natural Resources** report that **House Bill 525** (third reading copy -- blue) **be concurred in.**

Signed: \_\_\_\_\_

*Senator Chas Vincent, Chair*

To be carried by Senator Jennifer Fielder

- END -

**Committee Vote:**

**Yes 7, No 5**

Fiscal Note Required

HB0525001SC15235.spt



SENATE STANDING COMMITTEE REPORT

April 8, 2015

Page 1 of 1

Madame President:

We, your committee on **Natural Resources** report that **Senate Resolution 5** (first reading copy -  
- white) **be adopted**.

Signed: \_\_\_\_\_

A handwritten signature in cursive script, appearing to read "Chas Vincent".

*Senator Chas Vincent, Chair*

- END -

**Committee Vote:**

**Yes 11, No 1**

Fiscal Note Required

SR0005002SC.spt



PRELIMINARY  
SENATE STANDING COMMITTEE REPORT

April 8, 2015  
Page 1 of 1

Madame President:

We, your committee on **Natural Resources** report that **Senate Resolution 5** (first reading copy -  
- white) **be adopted.**

Signed: \_\_\_\_\_

A handwritten signature in cursive script, appearing to read "Chas Vincent", written over a horizontal line.

*Senator Chas Vincent, Chair*

- END -

**Committee Vote:**

**Yes 11, No 1**

Fiscal Note Required

SR0005001SC.spt

**MONTANA STATE SENATE**  
**Roll Call Vote**  
**NATURAL RESOURCES COMMITTEE**

DATE 04.08.2015 BILL NO. SJR 17 MOTION NO. 1  
 MOTION: Be Amended SJ001701.ASN

<u>NAME</u>	AYE	NO	If Proxy Vote, check here & include signed Proxy Form with minutes
SENATOR RICK RIPLEY, VICE CHAIR	X		
SENATOR CHRISTINE KAUFMANN	X		
SENATOR DUANE ANKNEY	X		
SENATOR JOHN BRENDEN	X		
SENATOR PAT CONNELL	X		
SENATOR JENNIFER FIELDER	X		
SENATOR BRADLEY MAXON HAMLETT	X		X
SENATOR BRIAN HOVEN	X		
SENATOR JIM KEANE	X		X
SENATOR CLIFF LARSEN	X		
SENATOR MIKE PHILLIPS	X		
SENATOR CHAS VINCENT, CHAIR	X		
	12		

**MONTANA STATE SENATE**  
**Roll Call Vote**  
**NATURAL RESOURCES COMMITTEE**

DATE 04.08.2015 BILL NO SJR 17 MOTION NO. 2

MOTION: Table

<u>NAME</u>	AYE	NO	If Proxy Vote, check here & include signed Proxy Form with minutes
SENATOR RICK RIPLEY, VICE CHAIR	X		
SENATOR CHRISTINE KAUFMANN		X	
SENATOR DUANE ANKNEY	X		
SENATOR JOHN BRENDEN	X		
SENATOR PAT CONNELL	X		
SENATOR JENNIFER FIELDER		X	
SENATOR BRADLEY MAXON HAMLETT		X	
SENATOR BRIAN HOVEN	X		
SENATOR JIM KEANE		X	X
SENATOR CLIFF LARSEN		X	
SENATOR MIKE PHILLIPS		X	
SENATOR CHAS VINCENT, CHAIR	X		
	6	6	

**MONTANA STATE SENATE**  
**Roll Call Vote**  
**NATURAL RESOURCES COMMITTEE**

DATE 04.08.2015 BILL NO SJR 17 MOTION NO. 3

MOTION: Table

<u>NAME</u>	<u>AYE</u>	<u>NO</u>	<u>If Proxy Vote, check here &amp; include signed Proxy Form with minutes</u>
SENATOR RICK RIPLEY, VICE CHAIR	X		
SENATOR CHRISTINE KAUFMANN		X	
SENATOR DUANE ANKNEY	X		
SENATOR JOHN BRENDEN	X		
SENATOR PAT CONNELL	X		
SENATOR JENNIFER FIELDER	X		
SENATOR BRADLEY MAXON HAMLETT		X	
SENATOR BRIAN HOVEN	X		
SENATOR JIM KEANE		X	X
SENATOR CLIFF LARSEN		X	
SENATOR MIKE PHILLIPS	X		
SENATOR CHAS VINCENT, CHAIR	X		
	8	4	

**MONTANA STATE SENATE**  
**Roll Call Vote**  
**NATURAL RESOURCES COMMITTEE**

DATE 04.08.2015 BILL NO HB46 MOTION NO. 4

MOTION: Be Concurred In

<u>NAME</u>	<u>AYE</u>	<u>NO</u>	<u>If Proxy Vote, check here &amp; include signed Proxy Form with minutes</u>
SENATOR RICK RIPLEY, VICE CHAIR		X	
SENATOR CHRISTINE KAUFMANN	X		
SENATOR DUANE ANKNEY		X	
SENATOR JOHN BRENDEN		X	
SENATOR PAT CONNELL		X	
SENATOR JENNIFER FIELDER		X	
SENATOR BRADLEY MAXON HAMLETT	X		X
SENATOR BRIAN HOVEN		X	
SENATOR JIM KEANE	X		X
SENATOR CLIFF LARSEN	X		
SENATOR MIKE PHILLIPS	X		
SENATOR CHAS VINCENT, CHAIR		X	
	5	7	

**MONTANA STATE SENATE**  
**Roll Call Vote**  
**NATURAL RESOURCES COMMITTEE**

DATE 04.08.2015 BILL NO. HB434 MOTION NO. 5  
 MOTION: Be Concurred In

<u>NAME</u>	<u>AYE</u>	<u>NO</u>	<u>If Proxy Vote, check here &amp; include signed Proxy Form with minutes</u>
SENATOR RICK RIPLEY, VICE CHAIR	X		
SENATOR CHRISTINE KAUFMANN	X		
SENATOR DUANE ANKNEY	X		
SENATOR JOHN BRENDEN		X	
SENATOR PAT CONNELL	X		
SENATOR JENNIFER FIELDER	X		
SENATOR BRADLEY MAXON HAMLETT	X		
SENATOR BRIAN HOVEN	X		
SENATOR JIM KEANE	X		X
SENATOR CLIFF LARSEN	X		
SENATOR MIKE PHILLIPS	X		
SENATOR CHAS VINCENT, CHAIR	X		
	11	1	

**MONTANA STATE SENATE**  
**Roll Call Vote**  
**NATURAL RESOURCES COMMITTEE**

DATE 04.08.2015 BILL NO HB525 MOTION NO. 6  
 MOTION: Be Concurred In

<u>NAME</u>	<u>AYE</u>	<u>NO</u>	<u>If Proxy Vote, check here &amp; include signed Proxy Form with minutes</u>
SENATOR RICK RIPLEY, VICE CHAIR		X	
SENATOR CHRISTINE KAUFMANN	X		
SENATOR DUANE ANKNEY		X	
SENATOR JOHN BRENDEN		X	
SENATOR PAT CONNELL		X	
SENATOR JENNIFER FIELDER	X		
SENATOR BRADLEY MAXON HAMLETT	X		
SENATOR BRIAN HOVEN	X		
SENATOR JIM KEANE	X		X
SENATOR CLIFF LARSEN	X		
SENATOR MIKE PHILLIPS	X		
SENATOR CHAS VINCENT, CHAIR		X	
	7	5	





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**MONTANA STATE SENATE**  
**Visitors Register**  
**SENATE NATURAL RESOURCES COMMITTEE**

Wednesday, April 8, 2015

SR 5 - Confirm Governor's appointment related to environmental quality and review

Sponsor: **Sen. Chas Vincent**

PLEASE PRINT

Name	Representing	Support	Oppose	Info
DAVE GALT	MPA	X		
Judy Hanson	self	X		
Tammy Johnson	MMA	X		
Kenda Winters	Ranick Golden Sunlight	X		
Tom Lowers	DEQ	X		
Mark Lambrecht	THRA	X		
Tom Ebzery	SELF	X		
ROBIN SHROPSHIRE	Self	X		
Marietta Canty	self	X		

Please leave prepared testimony with Secretary. Witness Statement forms are available if you care to submit written testimony.





**MONTANA STATE SENATE  
Visitors Register  
SENATE NATURAL RESOURCES COMMITTEE**

**Wednesday, April 8, 2015**

**HJ 13 - Interim study of federal roads and parcels and access**

**Sponsor: Rep. Kerry White**

**PLEASE PRINT**

Name	Representing	Support	Oppose	Info
Bob Gilbert	C.B.U, WUM	X		
Nicole Rolf	MFBF	X		
John HAGENGRUBER	US Forest Service			X

Please leave prepared testimony with Secretary. Witness Statement forms are available if you care to submit written testimony.

OFFICE OF THE GOVERNOR  
STATE OF MONTANA

STEVE BULLOCK  
GOVERNOR



Additional Documents  
SENATE: Natural Resources  
Date: 04.08.2015  
Bill No. SR 5

ANGELA MCLEAN  
LT. GOVERNOR

## 2013-2015 Interim Appointments

### *Boards, Councils and Commissions*

#### **Board of Environmental Review (BER)**

Marietta Canty

Joan Miles

Robin Shropshire

Christian Tweeten

*Included: Statute for Appointment*

*Biographies, Resumes or other Application Materials for  
interim appointees*

Date: \_\_\_\_\_

Bill No. \_\_\_\_\_

# Montana Code Annotated 2014

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**2-15-3502. Board of environmental review.** (1) There is a board of environmental review.

(2) The board consists of seven members appointed by the governor. The members must be representative of the geographic areas of the state. One member must have expertise or background in hydrology. One member must have expertise or background in local government planning. One member must have expertise or background in one of the environmental sciences. One member must have expertise or background as a county health officer or as a medical doctor.

(3) A vacancy occurring on the board must be filled by the governor in the same manner and from the same representative area as the original appointment.

(4) The board is designated as a quasi-judicial board for purposes of [2-15-124](#).

(5) The board is attached to the department of environmental quality for administrative purposes only as provided in [2-15-121](#).

**History:** En. Sec. 21, Ch. 418, L. 1995.

*Provided by Montana Legislative Services*



## **Marietta C. Canty, MS**

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### **Senior Environmental Engineer, Environmental Services**

M.S., with Highest Honors,  
Environmental Engineering, 1993  
Montana College of Mineral Science and  
Technology, Butte, Montana

B.S., with Highest Honors, Biological  
Sciences, Zoology Option, 1989  
Montana State University, Bozeman,  
Montana

Marietta C. Canty has 22 years of environmental engineering experience. She has conducted numerous and diverse types of environmental services for public and private clients, including financial institutions, law firms, real estate developers, commercial and manufacturing organizations, and government agencies. Her experience ranges from the preparation of Phase 1 Environmental Site Assessments to the management of large-scale, complex environmental remediation projects.

She has prepared Feasibility Studies/Remedial Alternatives Analyses for numerous sites, including Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) uncontrolled hazardous waste sites and numerous sites under voluntary cleanup programs. In addition, she has prepared Remedial Alternatives Analyses for former wood treatment facilities complicated with complex disposal regulations for wastes from wood treatment facilities, as well as dioxin-contaminated media.

Ms. Canty has prepared human health risk assessments in support of remedial investigation/feasibility studies for CERCLA uncontrolled hazardous waste sites, wood treatment sites, a former sugar mill, leaking underground storage tank sites, bulk petroleum sites, military installations, and sites contaminated with radionuclides.

Ms. Canty has performed blood lead modeling using EPA's Integrated Exposure Uptake and Biokinetic Model for Lead in Children (IEUBK), as well as the Adult Lead Model, which focuses on estimating fetal blood lead concentration in women exposed to lead contaminated soil.

Ms. Canty has performed statistical data analysis, including determining exposure point concentrations from soil and groundwater data through the interpretation of normal, log normal, and non-parametric data distributions. She is experienced in the use of EPA's ProUCL software designed specifically to calculate exposure point concentrations, as well as other statistical software.

Ms. Canty has extensive experience in developing innovative remedial technology applications for industrial and mining wastes. For several years, she was an integral member of a team of scientists and engineers developing remedial technologies under the EPA's Mine Waste Technology Program. During this time, she also presented the findings of this research and development at numerous technical conferences.



## ***Marietta C. Canty, MS***

### ***Project Experience***

#### **Revision of the State of Hawaii Department of Health Technical Guidance Manuals**

*Honolulu, Oahu, Hawaii*

Ms. Canty was the lead author in Bureau Veritas' project to revise the State of Hawaii Department of Health's Technical Guidance Manual (TGM) (i.e., the *Technical Guidance Manual for Implementation of the State Contingency Plan*) into a state-of-the-art guidance manual. As the lead author, Ms. Canty played an integral and key role in the successful revision of the State of Hawaii TGM.

#### **Revision and Update of the Korean Environmental Governing Standards**

*Republic of Korea*

Ms. Canty was an integral member of a project team that conducted a thorough review and comparative analysis of the objective criteria and management practices of the United State Department of Defense (DoD) Overseas Environmental Baseline Guidance Document, as well as local Korean environmental regulations. The information gained during the review and comparative analysis was subsequently used to appropriately update and revise the Korean Final Environmental Governing Standards.

#### **Evaluation of EPA's Proposed Plan for the East Helena NPL Site**

*East Helena NPL Site, East Helena, Montana*

Ms. Canty served as project manager/technical lead to provide an independent evaluation of the Environmental Protection Agency's (EPA's) Proposed Plan for the East Helena National Priorities List Superfund site. Technical comments were developed for all elements of the proposed plan including the residential clean-up levels in soil for lead and arsenic, the development and evaluation of the clean-up alternatives, and the preferred clean-up alternative. A detailed evaluation was also performed on the use of blood lead data and the Integrated Exposure Uptake and Biokinetic Model for Lead in Children to establish the lead clean-up level for the site.

#### **Human Health Risk Assessment/ Feasibility Study**

*Former United States Military Base, Busan, Republic of Korea*

Ms. Canty prepared a human health risk assessment to evaluate the potential for adverse human health effects from potential future exposures to contamination detected in the soil, groundwater, and soil gas at a 132-acre former military base. The site was divided into 11 separate areas with human health risks assessed for each area. Over 1,000 soil, groundwater, and soil gas samples were collected and used in the risk assessment. The Chemicals of Potential Concern (COPCs) included numerous polycyclic aromatic hydrocarbons and volatile organic compounds. The potential health risks to future receptors through exposure to the COPCs were evaluated by estimating risk for several potential exposure scenarios. Exposure scenarios were evaluated for future, potentially exposed, on-site receptors including future construction workers, future indoor workers, and future child park visitors. Subsurface vapor intrusion modeling was performed to evaluate potential health effects for the future indoor worker exposure scenario. Ms. Canty also prepared the Feasibility Study to screen, develop, and evaluate potential remedies for the site.

#### **Technical Expert**

*Hickam Air Force Base, Honolulu, Hawaii*

Ms. Canty acted as the technical expert for the law firm representing a private land developing company responsible for privatized military housing neighborhoods at Hickam Air Force Base. Past use of termiticides at the former military housing units in several large neighborhoods resulted in elevated



## ***Marietta C. Canty, MS***

concentrations of chlordane, aldrin, and dieldrin in surface soils in the residential yards of hundreds of recently-built military housing units. Ms. Canty guided the legal staff through several phases of environmental tasks, included soil sampling, assessment of human health risks, and development of remedial alternatives. Ms. Canty was instrumental in developing a site-specific approach for evaluating human health risks in which the method was protective human health, yet minimized the number of residential yards requiring mitigation.

### **Due Diligence Comprehensive Environmental Review**

*Numerous (94) Petroleum Facilities, Hawaii*

Ms. Canty performed a comprehensive environmental review in support of due diligence of 94 petroleum facilities located throughout the Hawaiian Islands ranging in size from small service stations to large-scale bulk petroleum terminals. An extensive file review was performed to summarize environmental conditions and remediation efforts for each facility and to develop recommendations for each site. The available facility information, environmental records, and the recommended actions were also used to quantify the total environmental risks that may exist, whether historic or future, for each of the facilities.

### **Due Diligence Comprehensive Environmental Review**

*Numerous (34) Petroleum Facilities, Guam, Saipan, and Palau*

Ms. Canty performed a comprehensive environmental review in support of due diligence of 34 petroleum facilities located throughout the South Pacific islands of Guam, Saipan, and Palau. The facilities ranged in size from small service stations to large-scale bulk petroleum terminals. An extensive file review was performed to summarize environmental conditions and remediation efforts for each facility and to develop recommendations for each site. The available facility information, environmental records, and the recommended actions were also used to quantify the total environmental risks that may exist, whether historic or future, for each of the facilities.

### **Construction Worker Human Health Risk Assessment**

*Former Orange Bowl Stadium, Miami, Florida*

Ms. Canty prepared a human health risk assessment specifically to evaluate potential adverse human health effects to construction workers involved in the construction of the Florida Marlins Stadium at the location of the former Orange Bowl Stadium. Arsenic concentrations in site soils had been mitigated to levels below the Florida Department of Environmental Protection (FDEP) Soil Cleanup Target Levels; however, soil cleanup levels specific to construction worker exposures are not available from the FDEP. The human health risk assessment was requested to ensure the health and safety of the construction workers at the site.

### **Human Health Risk Assessment/Remedial Design**

*Warm Springs Timber Treat Site, Garrison, Montana*

Ms. Canty prepared a human health risk assessment in support of the remediation of a former wood treating site under the Montana Voluntary Cleanup Program. The risk assessment was integral in developing a cost-effective remedy for the site. Ms. Canty was highly involved in the development of the remedy for the site that achieved site-specific risk-based goals, yet minimized the volume of contaminated soil requiring mitigations.

### **Environmental Design and Engineering Services**

*Pacific Missile Range Facility, Barking Sands, Kauai, Hawaii*

Ms. Canty serves as project manager for environmental design and engineering services at the Advanced Radar Detection Laboratory (ARDEL) facility. The proposed laboratory will be constructed on the edge of



## ***Marietta C. Canty, MS***

a former landfill at the Pacific Missile Range Facility. A comprehensive subsurface investigation was conducted at the site to identify potential contaminants resulting from the historic disposal practices at the former landfill and to evaluate potential exposure pathways to future workers at the ARDEL. A human health risk assessment was performed to evaluate potential health risks to future occupants of the ARDEL facility. A remedial alternative was developed to prevent subsurface vapor intrusion of landfill gases into the future structure.

### **Remedial Alternatives Analysis Human Health Risk Assessment**

*Former Aiea Sugar Mill VRP Site, Lot 15, Aiea, Oahu, Hawaii*

Ms. Canty serves as project manager for the on-going remediation of Lot 15 of the Former Aiea Sugar Mill Voluntary Response Program (VRP) Site. She was instrumental in designing the sampling approach used during the remedial investigation. She prepared numerous baseline documents required by the State of Hawaii Voluntary Response Program, such as a public participation plan and preliminary assessment/site inspection (PA/SI). Ms. Canty prepared a human health risk assessment to address lead-, arsenic-, benzo(a)pyrene-, and total petroleum hydrocarbon-impacted soils remaining at Lot 15. Because lead was identified as one of the chemicals of potential concern, she utilized the Integrated Exposure Uptake Biokinetic Model for Lead in Children (IEUBK), as well as the Adult Lead Model, to evaluate future industrial and residential scenarios. Ms. Canty prepared a complex remedial alternatives analysis for the site. The site is complicated by the presence of Aiea Stream bisecting the site and the presence of multiple chemicals of potential concern. The final remedial design for the site is presently being developed.

### **Human Health Risk Assessment**

*Bay Harbor Elementary School, Bay Harbor Islands, Maimi-Dade County, Florida*

Ms. Canty prepared a human health risk assessment to evaluate the potential for adverse human health effects from current or potential future exposures to contamination detected in the soil and groundwater at the site. The Chemicals of Potential Concern (COPCs) in soil were identified as arsenic and benzo(a)pyrene. The COPCs in groundwater were identified as arsenic, naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene. The potential health risks to potential receptors through exposure to the COPCs were evaluated by estimating risk for several potential exposure scenarios. Exposure scenarios were evaluated for current and future, potentially exposed, on-site and off-site populations including current/future on-site elementary school children, current/future off-site child residents, and future construction workers.

### **Comprehensive Site Investigation**

*Waiawa Ridge, Oahu, Hawaii*

Ms. Canty played a key role in the development of the sampling strategy and the interpretation of data from a comprehensive site investigation at a 1,000-acre site formerly used for pineapple and sugar cane cultivation, as well as numerous other isolated uses of concern, such as military storage areas, a cannery, a nursery, plantation camps, and a railroad. The site is slated for a residential development. A cutting-edge, statistical proportion approach was used to select sampling areas of the site. Soil samples were analyzed for arsenic, pesticides, and herbicides, as well as arsenic bioaccessibility, in which the samples were exposed to simulated gastrointestinal conditions to determine the portion of arsenic that could be absorbed by the human body. A 'No Further Action' status was ultimately attained for the site.



## ***Marietta C. Canty, MS***

### **Human Health Risk Assessment**

*Former Dry Cleaners, Boulder, Colorado*

Ms. Canty prepared a human health risk assessment to evaluate the potential for adverse human health effects from current or potential future exposures to residual contamination detected in the soil and groundwater at the site. The Chemicals of Potential Concern (COPCs) were identified as tetrachloroethene (PCE), trichloroethene (TCE), and cis-1,2-dichloroethene (cis-1,2-DCE). The potential health risks to potential receptors through exposure to the COPCs were evaluated by estimating risk for several potential exposure scenarios. Exposure scenarios were evaluated for current and future, potentially exposed, on-site and off-site populations including current on-site indoor workers, current on-site outdoor workers, current off-site child residents, future on-site construction workers, future on-site child residents, and future off-site child residents.

### **Remedial Alternatives Analysis**

#### **Human Health Risk Assessment**

*Former Wood Treatment Facility, 2819 Pukoloa Street, Honolulu, Oahu, Hawaii*

Ms. Canty prepared a human health risk assessment to address soils and groundwater impacted with contaminants associated with wood treating facilities, including dioxins, pentachlorophenol, chromium, and arsenic. Because of the presence of numerous contaminants at this site, the human health risk assessment involved the complex assessment of cumulative health risks. Human health risks were integral in the evaluation of potential site remedies. Ms. Canty was instrumental in the development of remedial alternatives for the site, which were complicated with complex disposal regulations for wastes from wood treatment facilities, as well as dioxin-contaminated media. Innovative remedial alternatives were developed to minimize costs.

### **Remedial Alternatives Analysis**

#### **Human Health Risk Assessment**

*Komohana Park VRP Site, Campbell Industrial Park, Kapolei, Oahu, Hawaii*

Ms. Canty prepared a human health risk assessment to assess free product and soils and groundwater impacted with contaminants associated with a leaking waste oil underground storage tank. Ms. Canty also prepared an analysis of remedial alternatives for the site that included various approaches to recover free product and achieved risk-based goals.

### **Human Health Risk Assessments**

*Numerous Leaking Underground Storage Tank Sites, Hawaii*

Ms. Canty has prepared numerous human health risk assessments to address soil and groundwater impacted with contaminants associated with Leaking Underground Storage Tanks (LUSTs). Contaminants included those typical of gasoline range organics (i.e., volatile organic compounds), as well as diesel range organics and heavy oil range organics (e.g., semi-volatile organic compounds and polynuclear aromatic hydrocarbons).

### **Human Health Risk Assessment**

#### **Remedial Alternatives Analysis**

*Former Aiea Sugar Mill VRP Site, Lots 6 through 14, Aiea, Oahu, Hawaii*

Ms. Canty served as project manager for a large-scale remediation project, from the remedial investigation through the letter of completion at Lots 6 through 14 of the Former Aiea Sugar Mill. She prepared numerous baseline documents required by the State of Hawaii Voluntary Response Program



## ***Marietta C. Canty, MS***

such as a public participation plan and preliminary assessment/site inspection (PA/SI). Ms. Canty prepared a human health risk assessment to address lead impacted soils remaining at Lots 6 through 14 of the former Aiea Sugar Mill VRP Site. To evaluate future industrial and residential scenarios, she utilized the Integrated Exposure Uptake Biokinetic Model for Lead in Children (IEUBK), as well as the Adult Lead Model, which focuses on estimating fetal blood lead concentration in women exposed to lead contaminated soil. Extensive statistical analyses of site soil data were required to determine exposure point concentrations. Ms. Canty prepared a remedial alternatives analysis and remedial action work plan. She directed the remedial action and post-remedial confirmation sampling, and prepared the remedial action report and addendum to the human health risk assessment documenting acceptable post-remedial site risks.

### **Human Health Risk Assessment**

*Tripler Army Medical Center, Honolulu, Oahu, Hawaii*

Ms. Canty prepared a human health risk assessment to address free product, and petroleum and lead impacted soils discovered during removal of several underground storage tanks (USTs) at a former steam generation plant for a medical center's laundry. The risk assessment included modeling of subsurface vapor intrusion to assess risk for potential future construction at that location.

### **Superfund Human Health Risk Assessment**

*Idaho Post and Pole NPL Site, Bozeman, Montana*

As part of a two-person team, Ms. Canty prepared a human health risk assessment for a former wood treating facility, the Idaho Post and Pole National Priority List (NPL) Site. Pentachlorophenol (PCP), dioxins, and lead were the chemicals of concern.

### **Human Health Risk Assessments**

*Idaho National Environmental and Energy Laboratories*

Ms. Canty served as project manager responsible for the preparation of 17 human health risk assessments at the Power Burst Facility on the Idaho National Environmental and Energy Laboratories (INEEL) site. All sites contained radionuclide and solvent contaminants.

### **Human Health Risk Assessments**

*Texaco Sunburst Refinery, Sunburst, Montana*

*Big West Refinery, Kevin, Montana*

As part of a two-person team, Ms. Canty prepared human health risk assessments for two former refineries. Both were non-NPL uncontrolled hazardous waste sites under the Montana Comprehensive Environmental Clean-up and Responsibility Act (CECRA).

### **Phase I and II Environmental Assessment**

*Public School System*

Ms. Canty performed Phase I and II environmental assessments for a former municipal waste site which was adjacent to a public elementary school and the site of its future athletic field.

### **Innovative Technology Development – Heavy Metals**

*Environmental Protection Agency (EPA) Mine Waste Technology Program*

Ms. Canty was project manager for an acid mine drainage remedial technology demonstration. The technology used sulfate-reducing bacteria to catalyze the reduction of sulfate to hydrogen sulfide in acidic



## ***Marietta C. Canty, MS***

mine drainage, resulting in the concomitant precipitation of insoluble metal sulfides from solution. The project included both a pilot-scale and a field-scale demonstration at an abandoned mine site in Montana.

### **Innovate Technology Development**

*Construction Engineering Research Laboratory, Army Corps of Engineers*

Ms. Canty managed a project for the Department of Defense under the U.S. Army Corps of Engineers Construction Engineering Research Laboratories that demonstrated industrial wastewater pollution prevention technology. She was responsible for technical coordination and conduct of the project under the approved scope, schedule, and budget. The technology involved using sulfate-reducing bacteria to mitigate chromium (VI)-contaminated wastewater from an arsenal in New York State.

### **Treatability Studies**

*Historic Timber Preservation Yard*

Ms. Canty was task manager responsible for the design, implementation, and analysis of treatability studies to determine the applicability of an innovative, arsenic fixation technology for use at an NPL site in southwestern Montana (historic timber preservation yard). The project included the collection of 4 tons of contaminated soil that was used to conduct studies within a large test matrix to determine optimal treatment parameters.

### **Technology Development**

*EPA Mine Waste Technology Program*

Ms. Canty was project manager for a bench-scale demonstration project comparing innovative technologies for their abilities to passively remove arsenic from water. The project was conducted under EPA's Mine Waste Technology Program. Ms. Canty was responsible for the technical coordination and conduct of the project within the approved scope, schedule, and budget.

### **Technology Development**

*EPA Mine Waste Technology Program*

Ms. Canty managed an integrated biological technology treatment project for the complete remediation of acid mine drainage. The technology comprised a series of reactors using several passive technologies including aerobic bacteria, anaerobic bacteria, and passive aeration. The project included laboratory and field demonstrations.

### **Technology Development**

*EPA Mine Waste Technology Program*

Ms. Canty was project manager for a cyanide biodegradation technology demonstration project. Biological degradation of cyanide compounds offers a cost-effective treatment alternative over chemical treatment for cyanide wastes. The project included a pilot-scale unit operated at an active mine in Nevada.

### **Technology Development**

*EPA Mine Waste Technology Program*

Ms. Canty was project manager for a demonstration project comparing several innovative selenium removal technologies. The project was conducted at pilot-scale at an active precious metal mine in Utah.



## ***Marietta C. Canty, MS***

### ***Employment History***

*Bureau Veritas North America, Inc.* (purchased Clayton Group Services) –Honolulu, Hawaii  
Senior Environmental Engineer  
2005 to Present

Clayton Group Services, Inc. – Clayton Group Services, Inc. – Honolulu, Hawaii  
Senior Environmental Engineer  
2001 to 2005

MSE Technology Applications, Inc. – Butte, Montana  
Senior Environmental Engineer/Project Manager  
1994 to 2001

MSE Technology Applications, Inc. – Butte, Montana  
Environmental Engineer/Scientist  
1990 to 1994

MSE Technology Applications, Inc. – Butte, Montana  
Laboratory Assistant  
1989 to 1990

### ***Selected Publications***

Canty, M.; Ford, D.; Casey, P. Risk-Based Cleanup of Residual Chlorinated Solvent Vapors Using a Practical, Cost-Effective Approach in Hawaii. Proceedings of the Remediation of Chlorinated and Recalcitrant Compounds, Eighth International Symposium, Battelle Press 2012.

Canty, M.; Hiebert, R.; Foote, M.; Thompson, L.; Clark, P.; Beckman, S. An Integrated Bioreactor System for the Treatment of Cyanide, Metals, and Nitrates in Mine Process Water. *Mining Engineering*. September 2000.

Zaluski, M., K., J., Trudnowski, Canty, M., Harrington-Baker, M.A., 2000. *Performance of Field-Bioreactors with Sulfate Reducing Bacteria to Control Acid Mine Drainage*. Proceedings of Society for Mining Engineers ICARD 2000 Conference, Denver, May, 2000.

Canty, M. Innovative In Situ Treatment of Acid Mine Drainage using Sulfate Reducing Bacteria. Phytoremediation and Innovative Strategies for Specialized Remedial Applications. Fifth International In Situ and On-Site Bioremediation Symposium, Battelle Press. 1999.

Canty, M. Overview of the Sulfate-Reducing Bacteria Demonstration Project under the Mine Waste Technology Program. *Mining Engineering*. June 1999

Zaluski, M., Foote, M., Manchester, K., Canty, M., Willis, M., Consort, J., Trudnowski, J., Johnson, M., Harrington-Baker, M.A., 1999. *Design and Construction of Bioreactors with Sulfate-Reducing Bacteria for Acid Mine Drainage Control*. Proceedings of In Situ and On-Site Bioremediation, The Fifth International Symposium, 1999, Battelle Press.

Canty, M. *Lead-Based Paint Contribution To Childhood Blood Levels In Butte, Montana*; Master's Thesis, Montana College of Mineral Science and Technology, Butte, Montana. April 1993.

Joan A. Miles  
500 Diehl Drive  
Helena, Montana 59601  
Home (406) 442-3327  
Cell – 406-431-5444  
[joanmiles03@gmail.com](mailto:joanmiles03@gmail.com)

## **EDUCATION:**

University of the Pacific, McGeorge School of Law, Sacramento, CA

**Juris Doctor**, December 1991

Order of the Coif; Traynor Honor Society

Dean's Honor List 1989, 1990, 1991

American Jurisprudence Awards - Bankruptcy Law; Professional Responsibility;  
Land Finance & Real Estate Transactions

National Moot Court Honors Board; Trial Advocacy Program

BNA Law Student Award, 1992 (Most significant contribution to McGeorge community)

University of Montana, Missoula, MT

**M.S., Environmental Studies** 1979

Joseph Warren Severy Award for Public Service Activities

State University of New York at Albany, Albany, NY

**B.S., Medical Technology, Cum Laude** 1971

Outstanding Medical Technology Student Award (Albany Medical Center)

## **WORK EXPERIENCE:**

January 2009 – January 2013 – **Foundation Director, MHA...An Association of Montana Health Care Providers.** Director of grants and program development for MHA – primarily working with Montana's critical access and rural hospitals. Responsible for staff of 11; brought overall grant budget from \$1.5 M to over \$4 M; developed strong partnerships with DPHHS and other state agencies, obtaining funding and/or programs benefiting Montana's hospitals. Convener and facilitator for the Montana HealthCare Forum for 3 years -- a diverse Montana stakeholder group working to advance access to high quality health care for all Montanans.

September 2005 – November 2008 – **Director, Montana Department of Public Health and Human Services.** Appointed by Governor Brian Schweitzer as a Cabinet member and Director of DPHHS, the largest state agency with over 3000 employees and a multi-billion dollar budget. Responsible for the management and oversight of the Department's 11 divisions, covering all public health and human service programs in the state, as well as Medicaid, mental health programs, and state institutions serving Montana residents with mental illness, developmental and physical disabilities and those in need of substance abuse treatment. Also responsible for legislative activities including budget, policy issues and interim assignments.

1994 - 20005: **Lewis and Clark County Health Officer / Director Lewis and Clark City-County Health Department.** Responsible for oversight and implementation of all county public health and environmental health activities and services in Lewis and Clark County, including compliance with all relevant laws and regulations, planning, budgeting, personnel and programmatic activities. Staff of 68, \$5 million budget. Major programs include prevention and control of communicable diseases, immunizations, emergency preparedness, family/child health programs, WIC, Water Quality Protection District, breast and cervical health program, lead

awareness and education, environmental protection programs and the Cooperative Health Center (federally funded primary health care clinic). Worked collaboratively with other county entities such as Planning Department, Solid Waste Department, and County Emergency Services to develop and implement sound environmental protection programs, aimed at protecting the public's health in Lewis and Clark County.

1992 - 1994: **Law Clerk, Montana Supreme Court.** Research and drafting of opinions and orders in response to appeals from district courts or petitions for writs of certiorari, supervisory control, mandamus, and habeas corpus. Extensive research of Montana, other state, and federal decisions.

1991: **Legal Research Assistant,** Professor George Gould, McGeorge School of Law. Research and preparation of professional paper on Montana's approach to the identification and adjudication of federal Indian reserved water rights.

1989 - 1990: **Legal Researcher / Regulatory Analyst,** ENSECO-California Analytical Laboratory, W. Sacramento, CA. Review and analysis of state and federal laws and regulations affecting Cal-Analytical's clients and the environmental testing business itself; development of client contracts; monitoring of California and federal legislative activities; publication of bi-weekly newsletter for distribution to ENSECO's seven nationwide laboratories and environmental management firms.

1985 - 1988: **State Representative - Montana State Legislature,** House District #45, Helena, MT. Served in the 48th and 49th Montana Legislative Sessions; Member House Judiciary and Natural Resources Committees; appointed to Special Interim Committee on Insurance and Tort Reform (1988) and committee studying crisis in availability of pre-natal care in Montana (1987).

1981 - 1988: **Supervisor, Environmental Health Division,** Lewis and Clark City-County Health Department. Directed technical, enforcement, and public education efforts centering on local public health and environmental issues.

1979-1981: **Lobbyist, Researcher, Community Organizer,** Montana Environmental Information Center, Helena, MT. Community education, research, liaison with state and local agencies on environmental and public health issues, chief lobbyist for 1979 and 1981 legislative sessions.

1971 - 1974: **Medical Technologist ,** Upstate Medical Center (Syracuse, NY), Boston Beth Israel Hospital (Boston, MA), Lake Hospital (Yellowstone National Park, WY).

### **ACTIVITIES AND ASSOCIATIONS:**

Currently licensed to practice law in Montana, California, Federal courts. (Member ABA, Montana Bar Association, California Bar Association)

#### **Boards:**

Public Health Foundation (Washington DC) – current member, Board of Directors;  
Past Board President (2010-12)

Montana Health Cooperative - Consumer owned & operated health insurance  
program - Founding Board member (2012)

Ellen Meloy Fund for Desert Writers – Founding Board member (2005); Current Board  
Co-Chair

St. Peter's Hospital – Past Trustee; Past Board Chair

Member: American Society of Clinical Pathologists; American Society of Medical Technologists;  
American Public Health Association; National Public Health Law Association; Alumni  
member of Association of State and Territorial Health Officials

Volunteer Activities: YMCA Youth Soccer  
Past Board Member, Great Divide Youth Ski Team  
American Red Cross Blood Drives  
Volunteer tennis coach – Helena High School  
Site reviewer for National Public Health Accreditation Board

# ROBIN SHROPSHIRE, M.Sc.

## SUMMARY

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Compliance Manager and Hydrologist offering 20 years of industry, academic, policy making, and consultative experience. Unique experience in the energy industry throughout the United States and Canada.

## RECENT PROFESSIONAL EXPERIENCE

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### **Environmental Health and Safety Manager**

*Asset Management for Owners of Independent Power Generation Facilities*

POWER PLANT  
MANAGEMENT  
SERVICES  
(2008-Present)

Dedicated team member supporting management of a portfolio of power plants across the United States. Actively monitoring the quality of plant operations, budgets and regulatory compliance. Support due diligence efforts, development of new projects, acquisitions, divestitures, transitions, and new construction projects. Development and management support for contracts and supervision and oversight of consultants. Provide detailed analysis to provide strategic and tactical recommendations regarding risk reduction for the assets and business functions.

### **Hydrologist**

*Quasi-Judicial Board with Legislative Rulemaking Authority*

MONTANA  
BOARD OF  
ENVIRONMENTAL  
REVIEW  
(2005-Present)

Active member of the Governor Appointed Montana Board of Environmental Review. The Board has the authority and duty to draft and adopt state environmental rules related to air quality, water quality, public water supply, mined land reclamation, hazardous and solid waste, underground storage tanks, radioactive materials and siting of major facilities.

### **Academic Faculty**

*University of Montana- Helena, Helena, MT*

STATE OF  
MONTANA

(2002 - 2008)

Tenure track faculty member teaching a wide range of courses including Environmental Science, Chemistry and Water Resources. Expanding and developing the environmental science curriculum to incorporate inquiry and active learning techniques that facilitate and promote critical thinking skills. Actively involved in teaching, curriculum development, and advising and mentoring students for success in the workplace.

### **State Project Officer**

*Montana Department of Environmental Quality, Helena, MT*

Managed the Upper Clark Fork River, the nation's largest Superfund site, and Butte Priority Soils Superfund site for the State of Montana. Prepared and reviewed regulatory documents and evaluated data involving human and ecological risk for remedial decisions for hundred million dollar remediation projects.

- DUKE ENERGY**  
1998-2002
- Manager, Environment Health & Safety**  
*Dow Jones Sustainability Index listed Fortune 20 Energy Major, Calgary, AB*  
Successfully built and managed Duke Engineering & Services P/L office in Calgary from zero to five employees and over \$750,000 in revenue in a year and a half. Proven success in regulatory interactions including Alberta Environment, Alberta Energy and Utilities Board, and British Columbia Ministry of Environment, and the British Columbia Oil & Gas Commission. Management and environmental due diligence in multi-million dollar asset transactions. Responsible for projects, budget, business development, and staff including HR responsibilities.
- AMEC**  
1996-1998
- Project Manager, Contaminant Hydrogeology**  
*International Environmental Consulting Company, Calgary, AB*  
Supervised and managed numerous projects involving planning, budgeting, and implementing remediation of contaminated sites. Corresponded with regulatory agencies and successfully obtained environmental permits. Designed and applied numerical models for water resource protection studies.

## EDUCATION

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- DEGREE PROGRAMS**
- UNIVERSITY OF WATERLOO  
Masters of Science, Hydrogeology, Awarded 1995  
Research Assistant to Professor John Cherry  
Thesis; Dual Tracers: A Tool For Studying Matrix Diffusion and Fracture Parameters
- UNIVERSITY OF MONTANA  
B.A. Geology with Environmental Emphasis awarded 1992  
Top Senior in Geology Award

## SELECTED PROFESSIONAL EXPERIENCE

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### REGULATORY COMPLIANCE EXPERIENCE

- Regulatory compliance and audit experience with power generating facilities including NPDES, Title V, EPCRA, RMP, CERCLA, FERC and PSM.

### REGULATORY POLICY DEVELOPMENT

#### **MONTANA BOARD OF ENVIRONMENTAL REVIEW**

- The Board authority includes the duty to adopt all rules to implement the Clean Air Act of Montana;
  - Reviewed Coal Fired Power Plants permit to operate including BACT analysis for PM-10 and PM-2.5 .
  - Transmission Line compliance with regards to avian safety.
  - Green House Gas emission for Coal Fire Power Plant
  - Responsible for procedural rules, such as reporting, permitting and fee requirements;
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- Authority and duty to adopt rules establishing substantive standards, such as ambient air quality standards, emission and levels, and
  - Rules establishing enforcement rules establishing penalties for violations
  - Recent rules adopted by the Board of Environmental Review include: rules for discharges of Coal Bed Methane water, rules for Concentrated Animal Feeding Operations for Montana, rules for emission of mercury from coal fired power plants, and Stream Designation for as an Outstanding Resource Waters.

#### COURSE DEVELOPMENT AND INSTRUCTIONAL EXPERIENCE

##### UNIVERSITY OF MONTANA-HELENA

- Developed 13 Courses in the sciences with emphasis on problem solving, critical thinking and developing skills essential for success in the workplace
- Coordinated Geographic Information Systems training for Montana Department of Natural Resources and Conservation
- Developed internal course for teaching faculty how to incorporate power point presentations into their curriculum including both appropriate and inappropriate use of power point presentations
- Training for City of Helena to Develop Certificate Program Operators of Water & Wastewater Treatment Facilities
- Developed Curriculum for Faculty: *Incorporating Thinking Skills into Nursing Curriculum*
- Invited workshop leader for the Helena Education Foundation workshop in meeting the demands of a changing workforce in a "Flattened World"
- Representative of Higher Education on the Montana Office of Public Instructions Blue Ribbon Panel for choosing the Milken Award for 2006.

#### SPEAKING INVITATIONS

INVITED SPEAKER , 2008

Governor's Conference on Workforce Development. Panel on Restoration Economy in Montana, Billings Montana.

EXPERT PANEL MODERATOR , 2007

Montana Energy Summit- Energy, Economics and the Environment. Panel members included international energy experts, regulators, scientists, and industry executives.

INVITED SPEAKER , 2007

Capital High School, Discussion with students about Environmental Policy and the Montana Board of Environmental Review

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INVITED WORKSHOP LEADER, 2006  
Helena Education Foundation Workshop, Meeting the demands of a changing workforce in a  
"Flattened World".

**CARROLL COLLEGE**

**Adjunct Faculty Member, 2003**

*Instructed Earth Science Course:* Developed curriculum and instructed a course covering  
topics in geology including an overview of local and global environmental issues.  
Classroom learning was enhanced through papers, presentations, and field trips.

INVITED GUEST LECTURER, 2002

**Governors Advisory Counsel Board**, Presented information on EPA's proposed cleanup  
plan for the Upper Clark Fork River Superfund Site.

**TECHNICAL SPECIALIST**

**Alberta Energy and Utilities Board, 2000**

*Invited groundwater expert:* Invited to discuss sub-surface contaminant transport issues  
associated with naturally occurring radioactive material found in oil-field wastes.

**UNIVERSITY OF WATERLOO**

**Teaching Assistant, 1992-1995**

*Introductory Geology Lab Instructor, Geology: Crustal Evolution, Flow Through Porous Media,  
Contaminant Hydrogeology*

INVITED GUEST LECTURER

Penrose Conference on Fractured Clay Aquitards, Racine, Wisconsin (1994)

INVITED GUEST LECTURER

U.S.G.S Headquarters, Using Dissolved Gases as Tracers in Groundwater, Reston, Virginia  
(1994)

INVITED GUEST LECTURER

Solvents in Groundwater Meeting, Waterloo Ontario (1995)

**UNIVERSITY OF MONTANA**

**Teaching Assistant, 1991**

*Geology Field Methods Course*

**SITE ASSESSMENT MONITORING AND REMEDIATION**

- Environmental Due Diligence of numerous oil & gas facilities to evaluate liability issues  
such as sulphur recovery, air emissions, and soil and water quality;
- Technical Manager for Alb. Env. and A.E.U.B. project delineating Alberta's Base of  
Groundwater Protection
- Technical Editor; Giant Mine expert committee evaluating Arsenic Trioxide issues within  
Giant Mine, Yellowknife, N.T.

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ROBIN SHROPSHIRE

18 N. BENTON AVE. • HELENA, MT 59601 • E-MAIL RSHROPSHIRE@PPMSLLC.COM

CELL 406-465-2231

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- Technical review for regulatory compliance documents to license a high level radioactive waste burial facility, Yucca Mountain Nevada
  - United States Department of Energy: Designed and performed solute flow and transport experiments in large columns of fractured rock including: design of sampling techniques for dissolved gases and analysis of tracer data; Oak Ridge, Tennessee;
  - United States Department of Energy, Oak Ridge National Laboratory: Characterization of solute transport in fractured porous media using a two-dimensional analytical model;
  - Husky Oil: Involved with design and installation of groundwater and soil remediation systems including; pump and treat, soil vapour extraction , air sparge, and bioslurp systems; Lloydminster, Alberta;
  - Design of sampling protocol for dissolved methane in a deep borehole, to evaluate the possibility of methane leakage to overlying aquifers through improperly sealed boreholes; Camrose, Alberta;
  - Pembina Resources Canada; Numerical modeling of capture zones for a pump and treat system designed for the remediation of a hydrocarbon contaminated site;
  - Developed yearly soil, surface, and groundwater monitoring program for Springbank Links Golf Course at Calgary, Alberta;
  - Weyerhaeuser Canada Ltd., Grande Prairie, Alberta, Kraft Pulp Mills: Annual Groundwater Remediation Assessment Report and Plant Area Black Liquor and Diesel Fuel groundwater contamination, delineation, and remediation;
  - Daishowa-Marubeni International Ltd., Peace River, Alberta, Kraft Pulp Mills: Annual Groundwater Remediation Assessment Report, groundwater contamination, delineation, and remediation;
  - Regional District of Houston, British Columbia: Capture zone delineation and well-head protection study for municipal water wells, design, implementation, and calibration of a three-dimensional particle tracking and groundwater flow model ;
  - Anderson Exploration, Carstairs Gas Plant, Alberta: Evaluated hydraulic test data in order to characterize the aquifer and develop a hydrogeological conceptual model;
  - Conducted extensive field work for a variety of projects involving the installation of drive point piezometers in clay, and sand & gravel environments, sampling of atmospheric tracers in groundwater, and conducting packer borehole tests to estimate hydraulic conductivity in fractured rock;
  - Zenith Developments Limited: Hydrocarbon recovery of over 30,000 liters of LNAPL at a former oil and gas service station.
  - Westcoast Energy, Pine River Gas Plant: groundwater and soils monitoring program; Extensive inorganic chemistry data review
  - City of Calgary: Directed Phase II Environmental Site Assessments for the City of Calgary, Alberta;
  - Douglas Glen Subdivision: Directed Phase II Environmental Site Assessments for subdivision developers, Calgary, Alberta;
  - Installed and sample multi-level piezometers for groundwater dating using chlorofluorocarbons and tritium/helium methods, Cape Cod, Massachusetts;
  - Canadian Regional Airlines: Managed and successfully completed Phase II Environmental Site Assessments;
  - McCall Lake Plaza: Project manager for a site assessment of a property contaminated with free-phase hydrocarbon involving litigation; work included well installation and soil
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- and groundwater sampling following legal sampling protocol;
  - Gulf Canada Resources: Managed Groundwater monitoring and remediation at a gas plant in central Alberta including, monitoring well installations, removal of free-phase hydrocarbon, groundwater contamination delineation, and remediation;
  - Regional Landfill: Supervised field programs for licensing of solid waste management facility, for Fort Nelson-Liard Regional District, British Columbia.

#### WATER SUPPLY AND WELL HEAD PROTECTION

- Supervised and managed several groundwater potential studies for oil field injection purposes in an *Alberta Special Area*.
- Chevron Resources Ltd.: Annual Groundwater Licensing process and applications successfully completed and approved by Alberta Environmental Protection;
- Apache Canada Resources: Managed a groundwater potential studies for oil-field pressure maintenance, including geophysical log review, and successful drilling of groundwater well to meet target requirements, Fort St. John area, British Columbia;
- Regional District of Houston, British Columbia: Capture zone delineation and well-head protection evaluation, design, implementation, and calibration of a three-dimensional particle tracking and groundwater flow model using MODFLOW;
- City of Addis Ababa, Ethiopia: Groundwater potential study for Addis Ababa, Ethiopia, including development of a hydrogeological conceptual model and design, implementation, and calibration of a three-dimensional groundwater flow model using MODFLOW
- Subdivision Water Supply Project manager for a water supply study for application and licensing of a subdivision, Cochrane, Alberta;

#### NUMERICAL MODELING

- Cameco Mines: A regional groundwater model for a uranium mine site was developed through construction of a regional geological database using ACCESS, geological cross-sections, infiltration modeling and a sensitivity analysis using EPA's Landfill performance model HELP3;
  - Syncrude Canada Ltd., Aurora Mine Project Alliance: Development of a three-dimensional regional groundwater flow model, and telescoped site specific groundwater flow models for design of a sand and gravel aquifer dewatering system using MODFLOW;
  - W.M. Fares & Associates: Sheraton Hotel construction dewatering estimates for geotechnical applications using MODFLOW;
  - Quintette Coal, British Columbia: The mine dewatering system was designed based on site characterization, design and implementation, and calibration of a three-dimensional transient groundwater flow model MODFLOW;
  - City of Addis Ababa, Ethiopia: Groundwater potential study for Addis Ababa, Ethiopia, including development of a hydrogeological conceptual model and design, implementation, and calibration of a three-dimensional groundwater flow model using MODFLOW.
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## SELECTED PUBLICATION ACTIVITIES

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- Wagner, B. and Shropshire, R.G., *An Estimation of Montana's Restoration Economy*, Study jointly funded by: Montana Department of Natural Resources and Conservation Montana Department of Labor and Industry, September 2009.
- Shropshire, R.G., Pescosolido, C., and Cracolice, M., *Incorporating Thinking Skills Development into Nursing Chemistry Curriculum*, Presented at American Chemical Society., West Lafayette, Purdue, July 2006.
- Sanford, W.E., Shropshire, R.G., and Solomon, D.K., - *Dissolved Gas Tracers in Groundwater: Simplified Injection, Sampling and Analysis*, Water Resources Research, Vol. 32. No. 6, Pages 1635-1642, June 1996.
- Solomon, D.K., Cook, P.G., Shropshire, R.G., and Sanford, W.E., *Site Characterization using Tracers: Some Examples*. Spectrum 94: Nuclear and Hazardous Waste Management, International Topical Meeting, Atlanta, August 1994.
- Cook, P.G., Shropshire, R.G., Solomon, D.K., and Sanford, W.E., - *Estimating Groundwater Recharge using Chlorofluorocarbons*, American Geophysical Union., Baltimore, May 1994.
- Sanford, W.E., Solomon, D.K., and Shropshire, R.G., - *Noble Gas Tracers in Fractured Saprolite*, American Geophysical Union, Baltimore, May 1994.
- O'Brien, R., Jardine, P.M., and Shropshire, R.G., - *Experimental Characterization of Mass Transport in Undisturbed Macroporous Media*, American Geophysical Union, Baltimore, May 1994.
- Shropshire, R.G., Cherry, J.A., Solomon, D.K., Cook, P.G., Plummer, L.N., *The Combined Use of Chlorofluorocarbons and  $^3\text{H}/^3\text{He}$  and Groundwater Tracers in Fractured Clay*. Presented at Geological Society of America, October 1993.
- Brown, T., Toran, L., Solomon, D.K., Shropshire, R.G., Lee, R., and Ketelle, R., *Contaminant Migration at a Fractured Test Site on the Oak Ridge Reservation*, American Geophysical Union, Baltimore, 1992.

## CHRIS TWEETEN

Chris Tweeten was raised in Havre, Montana. He received his undergraduate degree in English from the University of Montana in 1974, and his law degree from UM Law School in 1977. He served as law clerk for Senior United States District Judge William J. Jameson from 1977-1978. From 1978-1989 he served as an Assistant Attorney General for the State of Montana, principally handling criminal appeals, Indian law matters, research and drafting of opinions, and civil litigation. From 1989-1993 he was associated with the firm of Hughes, Kellner, Sullivan & Alke in a general civil trial practice in Helena. From 1993 to 2010, he was a senior attorney in the office of the Attorney General, serving as Chief Deputy Attorney General from 1993-1996, Chief Counsel from 1996-2000, and Chief Civil Counsel from 2001-2010. His duties as Chief Civil Counsel included, among other things, civil litigation, supervising the drafting of formal and informal opinions from the Attorney General and his civil staff, and consultation with the Attorney General and other staff attorneys on a wide variety of civil law issues including ethics.

Since January 1, 2011, Chris has engaged in a private law practice emphasizing advice and services for state agencies and local governments. He has an appointment as an adjunct professor at the University of Montana School of Law teaching State and Local Government Law and working with students in the clinical program. He has appeared frequently before the United States Court of Appeals for the Ninth Circuit, and has argued more than 100 cases in the Montana Supreme Court. He is also admitted to practice before the Supreme Court of the United States.

In 1985 Attorney General Mike Greely appointed him to the Reserved Water Rights Compact Commission, which is responsible for negotiating settlements of Indian and federal reserved water rights in Montana. He has served as Chairman of the Commission since 1993. He has participated on behalf of the State in the negotiation of eighteen tribal and federal reserved water rights compacts.

Chris and his wife Jeanne live in Missoula. Their sons Andy and Jon also live in the Garden City.

OFFICE OF THE GOVERNOR  
STATE OF MONTANA

STEVE BULLOCK  
GOVERNOR



ANGELA McLEAN  
LT. GOVERNOR

2013-2015 Interim Appointments

*Cabinet*

**Department of Environmental Quality**  
**Tom Livers**

*Included: Statute for Appointment*

*Executive Appointment Confirmation Review Form*

*Copy of D-1 Form*

# Montana Code Annotated 2014

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**2-15-111. Appointment and qualifications of department heads.** (1) At the beginning of each gubernatorial term, the governor shall appoint each department head who serves as a director as provided in this chapter.

(2) An appointment of a director by the governor is subject to the confirmation of the senate, except that the governor may appoint a director to assume office before the senate meets in its next regular session to consider the appointment. A director so appointed is vested with all the functions of the office upon assuming the office and is a de jure officer, notwithstanding the fact that the senate has not yet confirmed the appointment. If the senate does not confirm the appointment of a director, the governor shall make a new appointment.

(3) A director serves at the pleasure of the governor. The governor may remove a director at any time and appoint a new director to the office.

(4) The governor shall select a director on the basis of the person's professional and administrative knowledge and experience and additional qualifications that are provided by law.

(5) If a vacancy occurs in the office of a director, the governor shall appoint a new director to serve at the pleasure of the governor.

(6) Heads of departments who are not directors must be elected or appointed and serve and have their vacancies filled as provided by law.

**History:** En. 82A-106 by Sec. 1, Ch. 272, L. 1971; amd. Sec. 6, Ch. 358, L. 1973; R.C.M. 1947, 82A-106; amd. Sec. 71, Ch. 61, L. 2007.

*Provided by Montana Legislative Services*

# Montana Code Annotated 2014

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**2-15-3501. Department of environmental quality -- head.** There is a department of environmental quality. The department head is the director of environmental quality appointed by the governor in accordance with [2-15-111](#).

**History:** En. Sec. 20, Ch. 418, L. 1995.

*Provided by Montana Legislative Services*

# Tom Livers

525 S. California St.  
Helena, MT 59601  
Phone: 406-461-0377 (cell)  
406-444-4632 (office)  
tlivers@mt.gov

## WORK EXPERIENCE

August, 2002  
to present

**Deputy Director**  
Montana Department of Environmental Quality

Responsible for direct supervision of Chief Financial Officer, Chief Information Officer, Oil & Gas Services Coordinator and two Montana Environmental Policy Act coordinators, and indirect supervision of an additional 35 professional staff. Direct the preparation, presentation, and implementation of the department's budget and legislation packages; represent department before standing and interim legislative committees. Oversee the department's process improvement efforts; design and manage major change initiatives. Coordinate agenda for and serve as department liaison to the Board of Environmental Review. Assist director in oversight of all department programs and functions.

December, 1996  
to August, 2002

**Chief, Technical & Financial Assistance Bureau**  
Montana Department of Environmental Quality

Responsible for direct supervision of four section supervisors and indirect supervision of 25-person professional staff, including civil and mechanical engineering teams, energy specialists, and occupational health specialists. Direct state and federal energy and environmental programs with a combined annual budget of more than \$25 million, including water and wastewater treatment plant financing, energy retrofit financing, technical assistance, public awareness and training. Coordinate municipal relations and serve as liaison between department and local governments. Integrate diverse energy and environmental activities into coordinated menu of services for municipalities and other key client groups; update and retool programs and services based on this integration and on changing operating conditions, such as utility industry restructuring. Assist in integration of services within new department and division. Direct development and design of major new programs, such as state revolving fund for drinking water activities, and comprehensive energy services programs for municipalities. Develop and direct legislative strategy for programs within bureau.

March 1991 to  
December, 1996

**Chief, Conservation and Renewable Energy Bureau**  
Montana Department of Environmental Quality/Montana  
Department of Natural Resources and Conservation,  
Helena, Montana

Responsible for direct supervision of three team leaders and two special staff, indirect supervision of professional staff ranging from information specialist to mechanical and chemical engineers. Direct 12 state and federal energy programs with a combined annual budget of more than \$3 million; develop innovative programs and competitive funding proposals; implement collaborative efforts between diverse interests and organizations; negotiate contracts; develop energy retrofit financing packages and oversee bond sales; develop and implement legislative strategy; serve as liaison between department and other federal, state and local government agencies, utilities and other client groups.

January 1986 to March 1991

**Assistant Chief, Conservation and Renewable Energy Bureau**  
Montana Department of Natural Resources and Conservation

Responsible for long-range planning for the bureau. Developed department's state buildings energy bond program. Directed legislative strategy, resulting in unanimous approval of both houses of the Montana Legislature. Responsible for program implementation, directing the work of in-house and private engineers, financial consultants, bond attorneys and personnel from other state agencies.

July 1984 to January 1986

**Supervisor, Energy Information Section**  
Montana Department of Natural Resources and Conservation

Responsible for direct supervision of 12-person professional staff conducting all information and education activities within the Energy Division. Activities included publications, seminars, public presentations and mass media contacts. Prepared annual management work plans, budgets and milestones for six federal, regional and state energy programs with a total annual budget of \$1.5 million. Represented agency at meetings with federal agencies to set program direction and to negotiate funding levels. Monitored contract milestones and employee work progress; evaluated employee performance.

July, 1980 to July, 1984

**Energy Education Specialist**  
Montana Department of Natural Resources and Conservation

Managed energy education and information projects; planned and wrote major publications; conducted workshops and seminars; wrote feature stories, public service announcements, advertisements and press releases; maintained media contacts and spoke before various groups.

January 1978 to July 1980

**Technical Writer**

Montana Department of Labor and Industry

Designed and implemented public information programs for the department; developed and implemented department's formal citizen participation procedures; wrote and edited major federal grant packages; wrote speeches and spoke before various groups.

**PROFESSIONAL AFFILIATIONS/RECOGNITION**

- Governor's Award for Excellence, 2012 and 2001
- Deputy Incident Commander, Silvertip Pipeline oil spill in the Yellowstone River, 2011
- Speaker, International Forum on Federations, Ottawa, Ontario, Canada 2010
- State of Montana Workforce Development Advisory Council, 2005 – 2012.
- State of Montana Information Technology Board, 2002 –2012.
- EPA Region VIII Environmental Excellence Award, 1996
- Represented state energy offices in international policy group to direct development of the North American Energy Measurement and Verification Protocol, 1995
- Served on national task force to redesign Department of Energy's Institutional Conservation Program, 1994
- Developed and taught communication course for local chapter of American Institute of Banking, 1990
- Outstanding Achievement Award, U.S. Department of Energy, 1989
- Developed and taught Technical Writing course for Montana Professional Development Center, 1989-1993
- Helena Advertising Federation, 1980-1986. Vice President, 1981-1982; President, 1982-1983; Board of Directors, 1983-1985
- Recipient, University of Montana Alumni Award of Excellence, 1977

**CIVIC PARTICIPATION**

- Board member, CommunityWorks, Inc., developing the ExplorationWorks Interactive Museum of Science and Culture in the Great Northern Town Center, Helena, 2000 – 2003.
- Helena School District #1 Board of Trustees, June 1993 - present. Board Chairman, 1995 -1996. Chairman, High School Facilities Task Force, 1994 -1996. Chairman, Superintendent Search Committee, 1996. Chairman, Policy Committee, 1997-1998.
- Referee, Montana Youth Soccer Association, 1996 – present, Montana High School Association, 1998 - present
- Helena Human Rights Task Force Legislative Committee, 1988
- Grand Street Theatre Board of Directors, 1982 - 1986. Secretary, 1983; President, 1984 - 1985
- Volunteer, numerous special benefits

## **EDUCATION**

- Cocoa Beach High School, Cocoa Beach, Florida, 1973. Valedictorian
- Bachelor of Arts with honors in Philosophy, University of Montana, Missoula, Montana 1977

## **REFERENCES**

References furnished on request

**EXECUTIVE APPOINTMENT CONFIRMATION REVIEW FORM**

*The information from this questionnaire will be used by the Montana Senate in considering action on your confirmation. The questionnaire must be completed in full. Answer "none" or "not applicable" where appropriate. If an item of information is "unknown," so state.*

*Applicants are also strongly encouraged to attach a current resume or curriculum vitae.*

Office or Position Sought

**Director, Department of Environmental Quality**

Date of Nomination

**December 1, 2014**

**BIOGRAPHICAL INFORMATION – SECTION 1**

Full Name

**Thomas James Livers**

List each maiden name, nickname, and any other names you have ever used or been known by

**Tom**

Current Residence

**525 S California St**

City

**Helena**

State

**MT**

Zip

**59601**

Years at current residence

**29**

If less than two years at current address, please list previous address

**Not applicable**

City

--

State

--

Zip

--

Years at previous residence

--

Business Phone Number

**406-444-6815**

Email Address

**tlivers@mt.gov**

Date of Birth

**10-26-1955**

Place of Birth

**Roundup, MT**

Are you a citizen of the United States?

Yes  No

Are you a resident of Montana?

Yes  No

Spouse's Name (if married or separated):

**Ellen Livers**

**EDUCATION – SECTION 2**

List each college, university, vocational or other postsecondary schools you have attended regardless of duration

Institution Name	Degrees or Certificates Awarded	Dates Attended
University of Montana	BA	1973-1977

**EMPLOYMENT – SECTION 3**

List all of your employment activities, including unemployment and self employment. Begin with your present or most recent information

Employer Name	Employer Address	Position(s) Held	Dates Employed
Montana Department of Environmental Quality	1520 E. Sixth Ave Helena, MT 59620-0400	Director	December, 2014
Montana Department of Environmental Quality	1520 E. Sixth Ave Helena, MT 59620-0400	Deputy Director	August, 2002 – December, 2014
Montana Department of Environmental Quality	1520 E. Sixth Ave Helena, MT 59620-0400	Chief, Technical & Financial Assistance Bureau	December, 1996 – August, 2002
Montana Department of Natural Resources & Conservation	1520 E. Sixth Ave Helena, MT 59620-0400	Chief, Conservation & Renewable Energy Bureau	March, 1991 – December, 1996
Montana Department of Natural Resources & Conservation	1520 E. Sixth Ave Helena, MT 59620-0400	Assistant Chief, Conservation & Renewable Energy Bureau	January, 1986 – March, 1991
Montana Department of Natural Resources & Conservation	1520 E. Sixth Ave Helena, MT 59620-0400	Supervisor, Energy Information Section	July, 1984 – January, 1986
Montana Department of Natural Resources & Conservation	1520 E. Sixth Ave Helena, MT 59620-0400	Energy Education Specialist	July, 1980 – July, 1984
Montana Department of Labor & Industry	33 Aspen Court Helena, MT 59620	Technical Writer	January, 1978 – July, 1980

**MEMBERSHIPS – SECTION 4**

List any professional or occupational licenses you have held or now hold. (Attach a list if necessary)		
Name of Licensing Agency	License Number	Date(s) Licensed
<b>none</b>		
<p>Have you ever been the subject of any professional disciplinary proceeding or had any professional license or permit revoked or restricted upon a finding of professional misconduct?    <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If yes, please write a detailed explanation on a separate sheet of paper and attach to this form</p>		
<p>List any memberships or offices you have held or now hold in professional, community, or trade organizations during the last ten (10) years. Begin with the most recent information (Attach a list if necessary)</p>		
Organization Name	Position(s) Held	
<b>none</b>		

<b>LOBBYING ACTIVITY – SECTION 5</b>	
<p>Have you ever been a registered lobbyist at any level of government during the last ten (10) years?  <input checked="" type="checkbox"/> Yes    <input type="checkbox"/> No</p> <p>If yes, list any agency or public office you lobbied and each principal you represented</p>	
<b>Department of Environmental Quality</b>	<b>Director</b>

To the best of your knowledge, have you, or anyone in your immediate family which you have a material interest been investigated, reprimanded, fined or suspended from doing business with any state or federal agency?

Yes  No

If yes, please write a detailed explanation on a separate sheet of paper and attach it to this form

### TAX COMPLIANCE – SECTION 6

Have you filed all federal, state, municipal city tax returns which are now due or overdue?

Yes  No

If no, please write a detailed explanation on a separate sheet of paper and attach it to this form

Have you ever been subject to a tax forfeiture action?

Yes  No

If yes, please write a detailed explanation on a separate sheet of paper and attach it to this form

### FINANCIAL DISCLOSURES – SECTION 7

Please attach a current copy of Form D-1, filed with the Montana Commissioner of Political Practices

### INTERESTS AND DUTIES – SECTION 8

Briefly explain your interest in the office to which you have been nominated

**With a long track record of management positions in this agency, I welcome the opportunity to lead it as director. I'll strive for a balance between continuing and enhancing what we do well and changing areas in which we need to improve. I believe in public service, and I believe the Department of Environmental Quality plays a critical role in balancing environmental protection with appropriate, responsible development.**

Briefly identify three (3) key challenges you see facing the agency or office to which you were nominated for appointment

**Succession planning – The average age of DEQ employees is 47, consistent with the overall state government average. Roughly 40% of DEQ employees are eligible for full or partial retirement. Toward this end, we have implemented formal workforce planning to identify potential successors for key positions. We have already realized benefits from this effort.**

**Competitiveness in recruitment and retention – In response to high turnover rates, DEQ management took a series of steps between 2006 and 2009 to make salaries more competitive with other state agencies and outside employers. Turnover dropped substantially and levelled off at an acceptable level. We have not had sufficient resources to keep pace since 2009 and are again slipping behind other employers. In 2014 turnover increased by a third, from slightly over 10% to almost 14% -- where it was prior to 2006.**

**Data/information systems – Many of DEQ’s databases and information systems are outdated. This hampers our ability to manage large permit volumes and environmental cleanup information in a timely and cost-effective manner. Also, some of our systems don’t communicate well with each other, resulting in inefficiency and duplication of effort.**

Briefly explain your views regarding the role of legislative intent in administrating the law by your respective agency

**I believe the role of the Department of Environmental Quality is first and foremost to administer the laws passed by the Montana Legislature. We don’t get to pick and choose which laws or sections we implement. That said, there’s often considerable discretion in how those laws are implemented. Rules, policies and procedures should flow from the purpose or intent of the law.**

**When I’ve been present for committee deliberation or have listened to floor discussion, I’m usually comfortable in gleaning from that discussion what the Legislature intends with specific legislation. In those cases, I’ve worked to ensure the department implements the law consistent with that intent.**

**I’m not always directly familiar with why a particular law was passed. In those cases, when the question of intent becomes relevant and significant, I’ve worked with department legal counsel to review archived committee and floor discussions to try to determine legislative intent.**

**When I’ve disagreed with the direction being offered during committee deliberation, I’ve voiced that disagreement at the appropriate points in the legislative process. Once any legislation becomes law, I’ve sworn an oath to uphold that law. When I believe there are provisions in statute that are ineffective or problematic, I’ve worked to propose statutory changes.**

Briefly explain how you plan to administer your agency in a fair and effective manner

**I tend to operate in a deliberative manner. I like to hear and consider all sides of an issue before acting. Some decisions call for more deliberation than others, and sometimes it’s critical to be decisive and act more quickly. I can typically strike this balance in a variety of circumstances.**

Throughout my career I've established strong working relationships with people across a wide range of perspectives and interests. I can talk with them, and they can talk with me. I've earned respect both across the spectrum of DEQ's external stakeholders and also from my colleagues within the department, in part because I've given that respect in return. As a regulatory agency, we will often render decisions that are unpopular. I believe it is critical that this agency formulate its decisions fairly, thoroughly, and professionally. Even when people disagree with us, they should be able to respect us and the process we followed in reaching our decision. As director, it's imperative I model that belief.

**CERTIFICATION – SECTION 9**

I hereby certify under penalty or perjury under the laws of the State of Montana, that the foregoing statements are true, complete, and correct to the best of my knowledge.

Signature

*Tom Lewis*

Date

*1/2/15*



**FORM D-1 BUSINESS DISCLOSURE STATEMENT, PAGE 2**

**9. OTHER BUSINESS INTERESTS**

List each business (corporation, partnership, or other business or professional entity or trust) in which you hold an interest that currently is valued at \$1,000 or more. (Attach a list if necessary)

- A "business interest" DOES include ownership of any security, equity, or evidence of indebtedness in any business corporation or other entity. If the security is a privately held corporation, list the name and address of the corporation. If the security is a corporation listed on a regulated stock exchange, list the name of the corporation; no address is required. If the security is held in a mutual fund, unit investment trust, or real estate investment trust, list the name of the fund or trust and NOT the individual name of the corporation; no address is required.
- A "business interest" DOES NOT include ownership of personal property not held for use or sale in a business or for investment (vehicles/household furnishings), cash surrender value of any insurance policy or annuity, bank deposits or certificates of deposit if not held for use in a business, and securities issued by any government or political subdivision.

Name of Business \_\_\_\_\_

Address \_\_\_\_\_ Type of Business \_\_\_\_\_  
(City, State, Zip Code)

.....  
Name of Business \_\_\_\_\_

Address \_\_\_\_\_ Type of Business \_\_\_\_\_  
(City, State, Zip Code)

.....  
Name of Business \_\_\_\_\_

Address \_\_\_\_\_ Type of Business \_\_\_\_\_  
(City, State, Zip Code)

.....  
Name of Business \_\_\_\_\_

Address \_\_\_\_\_ Type of Business \_\_\_\_\_  
(City, State, Zip Code)

.....  
Name of Business \_\_\_\_\_

Address \_\_\_\_\_ Type of Business \_\_\_\_\_  
(City, State, Zip Code)

**10. REAL PROPERTY**

List all property (*other than one personal residence*) in which you hold an interest, if that interest currently has a fair market value of \$1,000 or more. An "interest" includes a fee, life estate, joint or common tenancy, leasehold beneficial interest (through a trust), option to purchase, or mineral or royalty interest. (Attach a list if necessary)

General Description of Property \_\_\_\_\_

Nature of Interest Held in the Property \_\_\_\_\_

.....  
General Description of Property \_\_\_\_\_

Nature of Interest Held in the Property \_\_\_\_\_

.....  
General Description of Property \_\_\_\_\_

Nature of Interest Held in the Property \_\_\_\_\_

.....  
General Description of Property \_\_\_\_\_

Nature of Interest Held in the Property \_\_\_\_\_

**10. REAL PROPERTY, Continued**

General Description of Property \_\_\_\_\_

Nature of Interest Held in the Property \_\_\_\_\_

General Description of Property \_\_\_\_\_

Nature of Interest Held in the Property \_\_\_\_\_

General Description of Property \_\_\_\_\_

Nature of Interest Held in the Property \_\_\_\_\_

**11. ASSOCIATION WITH OTHER ENTITIES**

List each additional entity in which you are an OFFICER or DIRECTOR; include both for-profit and not-for-profit entities. (Attach a list if necessary)

Name of Organization \_\_\_\_\_ Office Held \_\_\_\_\_

Address \_\_\_\_\_  
(City, State, Zip Code)

Name of Organization \_\_\_\_\_ Office Held \_\_\_\_\_

Address \_\_\_\_\_  
(City, State, Zip Code)

Name of Organization \_\_\_\_\_ Office Held \_\_\_\_\_

Address \_\_\_\_\_  
(City, State, Zip Code)

Name of Organization \_\_\_\_\_ Office Held \_\_\_\_\_

Address \_\_\_\_\_  
(City, State, Zip Code)

Name of Organization \_\_\_\_\_ Office Held \_\_\_\_\_

Address \_\_\_\_\_  
(City, State, Zip Code)

**CERTIFICATION**

*I hereby certify that the foregoing statements are true and correct to the best of my knowledge.*

Tom Lewis  
Signature

1/2/15  
Date

**FORM MAY BE REPRODUCED**

**Notice: you must follow up with a signed hard copy to CPP. Delivery receipt of this form will appear in your email. For further guidance, contact CPP at (406) 444-2942.**