In The Matter Of:

Before the Department of Environmental Quality Rules Hearinag

> Transcript of Public Hearing June 10, 2024

Lesofski Court Reporting, Inc. 7 West Sixth Avenue, Suite 2C Helena, MT 59601 406-443-2010

Min-U-Script® with Word Index

1 1 BEFORE THE DEPARTMENT OF ENVIRONMENTAL QUALITY OF THE STATE OF MONTANA 2 In the matter of adoption of) NEW RULE I and NEW RULE II, 3) the amendment of ARM) 17.30.201, 17.30.507, 4) 17.30.516, 17.30.602, 17.30.619, 17.30.622, 5 17.30.623, 17.30.624,) 6 17.30.625, 17.30.626,) 17.30.627, 17.30.628,) 17.30.629, 17.30.635, 7 17.30.702, 17.30.715, and) 8 17.30.1304, the repeal of ARM 17.30.660 and 17.30.1388, and 9 the adoption of Circular DEO-15 pertaining to translation of narrative 10 nutrient standards and 11 implementation of the Adaptive Management Program 12 13 PUBLIC HEARING 14 15 On the 10th of June, 2024, beginning at 16 10:00 a.m., a hearing was held in Room 111 of the 17 18 Metcalf Building at 1520 East Sixth Avenue, Helena, 19 Montana, before Holly E. Fox, Court Reporter and 20 Notary Public. 21 22 23 24 25

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1	A P P E A R A N C E S
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3	APPEARING ON BEHALF OF MT DEQ:
4	Kurt Moser, hearing officer Lindsey Krywaruchka
5	Loryn Johnson
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The following proceedings were had and 1 testimony taken: 2 * * * * * * * * 3 4 5 HEARING OFFICER MOSER: Okay. Good morning. This is hearing is called to order. 6 Let 7 the record show that it is 10:01 a.m. on June 10, This hearing is taking place both in person 8 2024. at -- and at DEQ's Metcalf office in Helena and 9 virtually via Zoom. The meeting will be recorded. 10 This is the time set for the rulemaking hearing 11 in the matter or the proposed adoption of New Rule I 12 and New Rule II; the amendment of ARM 17.30.201, 13 17.30.507, 17.30.516, 17.30.602, 17.30.619, 14 15 17.30.622, 17.30.623, 17.30.624, 17.30.625, 17.30.626, 17.30.627, 17.30.628, 17.30.629, 16 17.30.635, 17.30.702, 17.30.715, and 17.30.1304; the 17 18 repeal of ARM 17.30.660 and 17.30.1388; and adoption of Circular DEQ-15 pertaining to translation of 19 20 narrative nutrient standards and implementation of 21 the adaptive management program. 22 This proposal was originally published in the 23 Montana Administrative Register, MAR Notice 24 Number 17-434 at Pages 794 to 817 on April 26, 2024. 25 My name is Kurt Moser, and I'm an attorney with

1	the Montana Department of Environmental Quality, and
2	I'll preside over the hearing today.
3	Section 2-4-302, sub 7, MCA, and Administrative
4	Rule of Montana Administrative Rules of
5	Montana 1-3-311 require me to read the Notice of
6	Function of the Administrative Rule Review
7	Committee. It is as follows.
8	Notice of Function of Administrative Rule
9	Committee: Interim Committees and the Environmental
10	Quality Council. Administrative rule review is a
11	function of interim committees and the Environmental
12	Quality Council. These interim committees and the
13	EQC have administrative rule review, program
14	evaluation, and monitoring functions for the
15	following executive branch agencies and the entities
16	attached to the agencies for administrative
17	purposes.
18	For the Economic Affairs Interim Committee, the
19	Department of Agriculture, the Department of
20	Commerce, the Department of Labor and Industry, the
21	Department of Livestock, the Office of the State
22	Auditor and Insurance Commissioner, and the Office
23	of Economic Development, Division of Banking and
24	Financial Institutions, Alcohol Beverage Control
25	Division, and the Cannabis Control Division.

1	For the Education Interim Committee, state Board
2	of Education, Board of Public Board of Public
3	Education, Board of Regents of Higher Education,
4	Office of Public Instruction, Montana Historical
5	Society, and the Montana State Library.
6	For the Children, Families, Health, and Human
7	Services Interim Committee, the Department of Public
8	Health and Human Services.
9	For the Law and Justice Interim Committee, the
10	Department of Corrections and the Department of
11	Justice.
12	For the Energy and Telecommunications Interim
13	Committee, the Department of Public Service
14	Regulation.
15	For the Revenue Interim Committee, the
16	Department of Revenue and the Montana Tax Appeal
17	Board.
18	For the State Administration and Veterans'
19	Affairs Interim Committee, the Department of
20	Administration, Montana Public Employees Retirement
21	Administration, Board of Investments, Department of
22	Military Affairs, Office of the Secretary of State,
23	and Office of the Commissioner for Political
24	Practices.
25	

Department of Transportation and the Motor Vehicle 1 Division of the Department of Justice. 2 For the Environmental Quality Council, the 3 Department of Environmental Quality, the Department 4 of Fish, Wildlife and Parks, and the Department of 5 Natural Resources and Conservation. 6 7 For the Water Policy Interim Committee where the primary concern is the quality or the quantity of 8 water, the Department of Environmental Quality, the 9 Department of Fish, Wildlife and Parks, and the 10 Department of Natural Resources and Conservation. 11 These interim committees and the EQC have the 12 authority to make recommendations to an agency 13 regarding the adoption, amendment, or repeal of a 14 15 rule; and to request that the agency prepare a statement of estimated economic impact of a 16 proposal. They also may poll the members of the 17 18 legislature to determine if a proposed rule is consistent with the intent of the legislature; or, 19 20 during a legislative session, introduce a bill 21 repealing a rule or directing an agency to adopt or amend a rule or a joint resolution recommending that 22 an agency adopt, amend, or repeal a rule. 23 24 The interim committees and the EOC welcome comments and invite members of the public to appear 25

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before them and to send written statements in order
 to bring to their attention any difficulties with
 the existing or proposed rules. The mailing address
 P.O. Box 201706, Helena, Montana 59620-1706.

I'm also advising everyone present today of the 5 requirement in Montana law that agencies of state 6 7 government create and maintain a list of persons who are interested in that agency's rulemaking 8 proceedings. An agency's interested persons list 9 must indicate the subject or subjects in which each 10 person on the list is interested. Persons whose 11 names are on the list will receive notice by mail of 12 all agency rulemaking notices in the subjects 13 14 indicated. Anyone attending today who would like to 15 have his or her name placed on the Department and Board of Environmental Review's interested persons 16 list may do so by filling out one of the forms 17 18 available by the door today or by making a written 19 request to Loryn Johnson, paralegal, Department of Environmental Quality, 1520 East Sixth Avenue, 20 21 P.O. Box 200901, Helena, Montana 59620; fax your request to the Department's offices at (406) 22 23 444-4386; or email a request to Loryn Johnson at 24 loryn.johnson2@mt.gov. Please indicate which area 25 of rulemaking interests you so that the Department

1	can notify you of future rulemaking in that area.
2	Notice of this hearing was published on
3	April 26, 2024, in the 2024 Montana Administrative
4	Register, beginning on Page 794 of Issue Number 8
5	and under Notice 17-434.
6	As required by ARM 1.3.311 of the Secretary of
7	State's model rules, which have been adopted by the
8	Department, I'm required to summarize the major
9	provisions of the hearing notice.
10	Paragraph 3 of the hearing notice sets forth the
11	text of the proposed New Rules I and II, as well as
12	the legal authority and rationales for their
13	adoption, and the rationale for the adoption of
14	Circular DEQ-15. Because of the length of the new
15	rules and also the rationales, I will not read the
16	rules or those statements into the record. A
17	complete copy of the hearing notice will be included
18	in the official record of this hearing, and copies
19	are available here today.
20	Paragraph 4 of the hearing notice sets forth the
21	text of the proposed rule amendment, as well as the
22	legal authority and rationale for their amendments.
23	Because of the length of the amendments and the
24	associated rationales, I will not read them into the
25	record today.

1	Paragraph 5 of the hearing notice sets forth the
2	rules the Department has proposed to repeal, as well
3	as the reasons for the repeal. The repeal of
4	ARM 17.30.660 is an administrative update to remove
5	a rule that was directly repealed by Senate Bill 358
б	from the 2021 legislative session. The repeal of
7	ARM 17.30.1388 is necessary because the rule will be
8	unnecessary and redundant based on the proposed
9	adoption of New Rules I and II in this notice.
10	Paragraph 7 of the hearing notice indicates that
11	concerned persons may submit written data, views, or
12	arguments to the Department of Environmental Quality
13	at 1520 East Sixth Avenue, P.O. Box 200901, Helena,
14	Montana 59620-0901; fax at (406) 444-4386; or email
15	at DEQMAR17-434@mt.gov no later than 5:00 p.m. on
16	Monday, June 10, 2024 today. To be guaranteed
17	consideration mailed comments must be postmarked on
18	or before today's date.
19	Paragraph 9 gives notice that the Department

maintains rulemaking interested persons lists and indicates how persons may have their names placed on the list to receive notification from the Department regarding rulemaking matters. The Department is required by MCA 2-4-302, Sub 7, Sub b, to send a copy of each proposed notice of rulemaking to

1	interested persons who have requested to be informed
2	of the Department's rulemaking proceedings, or, if a
3	person has considered has consented, electronic
4	notification that the proposed notice is available
5	on the Department's website with a link that
6	contains the notice.
7	The order of presentation of testimony today
8	will be as follows:
9	I will ask a representative of the Department to
10	provide an introductory statement about the proposed
11	rulemaking. I will then ask to hear the testimony
12	of proponents; first, those appearing in person and
13	then those online. Then we will hear the testimony
14	of opponents; first, in person, then online. Then
15	we will hear the statements of anyone else wishing
16	to be heard; again, in person and then online. And
17	finally, I will then ask for any written comments
18	that any person who does not submit oral testimony
19	may wish to provide here today.
20	If you wish to present views data, views,
21	arguments, or other testimony, either orally or in
22	writing, please write your name, address, and
23	affiliation on the sign-up sheets that are available
24	near the back of the room. Please also indicate
25	whether you support or oppose the proposed rules.

1	If you are appearing online via Zoom and wish to
2	present data, views, arguments, or other testimony,
3	please write your name, address, and affiliation in
4	the chat feature of the Zoom platform. Please also
5	indicate whether you support or oppose the proposed
б	rules, or take no position, in the chat feature.
7	If you are appearing online and wish to present
8	written testimony, please postmark mail no later
9	than today, Monday, June 10, 2024, or fax or email
10	the Department as I previously indicated.
11	This is an informational hearing, the purpose of
12	which is to hear any and all relevant comments
13	regarding the proposed rules and the proposed
14	amendments and the repeal.
15	Formal rules of evidence will not be observed,
16	but testimony must be relevant to the matter at
17	issue in this hearing; that is the proposed adoption
18	of New Rules I and II pertaining to the translation
19	of narrative nutrient standards and the
20	implementation of the adaptive management program,
21	as well as the amendment or repeal of the rules I
22	have previously mentioned.
23	Copies of the hearing proposed notice, as well
24	as DEQ Circular 15, are available here today.
25	As the presiding officer, I may also examine any

witnesses making a statement here today. 1 I guess I would -- there appears to be a fair 2 amount of folks in the room, so I would ask you to 3 limit your testimony if you're providing testimony 4 5 today to no more than 10 minutes. If you are appearing virtually, please use the 6 7 "raise hand" feature in the Zoom application to indicate you would like to speak. When you are 8 called upon to speak, DEQ will unmute you. If you 9 are joining by phone, press star-9 to raise your 10 hand, press star-6 to mute or unmute yourself. 11 Prior to giving any testimony here today, please 12 identify yourself by name, address, and affiliation, 13 if any. 14 15 I will now ask the representative from the Department to present an introductory statement. 16 MS. KRYWARUCHKA: Good morning. My name is 17 18 Lindsey Krywaruchka. I am the division 19 administrator for water quality at the Department of 20 Environmental Quality. I'm here to provide an 21 introductory statement concerning the purpose of the rulemaking that is the subject of the hearing today, 22 MAR Notice Number 17-434. 23 24 Montana, with the rest of the nation, has long 25 considered excess nutrients a priority in water

quality management. When I speak about nutrients, I am referring to total phosphorous and total nitrogen in state surface water. In excess nutrients impact the ability of rivers and streams to support their valid beneficial uses, include fish, aquatic life, and recreation.

7 The Department adopts water quality standards to establish water quality goals for our state waters. 8 We designate the beneficial uses that our waters 9 should support, and then we set criteria to protect 10 those uses. Montana adopted a narrative water 11 quality standard applicable to state surface waters 12 in the 1970s. That standard centers on preventing 13 undesirable aquatic life. The Department has long 14 15 used this standard for addressing excess nutrient problems. 16

In 2014 Montana adopted base numeric nutrient 17 18 standards for wadable streams and some large river 19 These numeric standards were adopted in segments. 20 Circular DEQ-12A and supplemented the narrative 21 standards which remained in place and continued to 22 be used to interpret eutrophication-based impacts to 23 water quality from nutrients in non-DEQ-12A waters. 24 Then in 2021 the Montana legislature passed Senate Bill 358, which required the Department to 25

delete all references to the numeric nutrient 1 standards and to adopt new rules related to 2 nutrient -- or narrative nutrient standards in 3 consultation with the Nutrient Work Group. The new 4 rules were to include an adaptive management 5 program, a program which provides for an incremental 6 7 watershed approach for protecting and maintaining water quality, while reasonably balancing all 8 factors impacting a water body, prioritizing 9 phosphorous minimization and identifying appropriate 10 response variable affected by nutrients and 11 associated impact thresholds. 12

The Department has been working diligently in 13 consultation with the Nutrient Work Group since May 14 15 of 2021 to develop the rules that are the subject of today's hearing. We appreciate the time an input 16 the work group members have contributed to this 17 18 rulemaking process. The Department believes that 19 the rules before us today fulfill the requirements 20 of Senate Bill 358. The Department is proposing to 21 adopt two new rules and a new department circular 22 detailing procedures and requirements related to the narrative nutrient standards. We are also repealing 23 24 and amending existing rules to reflect this transition. 25

New Rule I in Circular DEQ-15 provides 1 translators for the narrative nutrient standards; 2 each translator being applicable to different 3 regions of Montana and different categories of 4 5 streams and rivers. These translators provide a consistent approach for determining whether the 6 7 narrative nutrient standards are met. Each translator combines nutrient causal and in-stream 8 response variables, plus protective impact 9 thresholds for each. Developed using Montana-based 10 science, response variables include measures of the 11 bottom-dwelling aquatic insect -- that is 12 13 macroinvertebrate population; the changes in dissolved rock and changes is dissolved oxygen. 14 The 15 narrative translators place greater emphasis on the biological responses measured in the river or stream 16 and less emphasis on the actual in-stream nutrient 17 18 concentrations when deciding whether aquatic life 19 and recreation uses are supported. The more 20 biologically-oriented approach can provide a more 21 accurate assessment of each river and stream and is consistent with other states such as Minnesota, 22 23 Ohio, Vermont, and Utah. 24 Numeral II in Circular DEO-15 describes in the

25 implementation of an adaptive management program

within Montana's surface water pollutant discharge 1 permitting program. New Rule II adds a new 2 compliance option to afford permittees greater 3 flexibility in how they achieve compliance with 4 their nutrient permit limit and conditions. 5 The Department has long acknowledged that reducing 6 7 nutrients in state waters has economic implications for our communities and businesses. For example, 8 the Department began examining the potential 9 economic impact of the numeric nutrient standards in 10 2007, a full seven years before those standards were 11 ultimately adopted. With today's rulemaking I want 12 to emphasize the Department's ongoing commitment 13 that we will ensure that the economic impacts of 14 15 reducing nutrients in our watersheds is given due consideration. 16

With the new adaptive management program, 17 18 compliance schedules can be used to achieve incremental nutrient production milestones over time 19 20 and allowing permittees to prioritize phosphorous 21 reduction when appropriate. The new program also 22 presents an opportunity for point source dischargers to engage in partnership to achieve nutrient 23 24 reductions throughout their watershed, including 25 from non-point sources of nutrients, as an

1 alternative to costly facility upgrades.
2 Importantly, the adaptive management program is
3 optional and does not include permittees from -- or
4 does not preclude permittees from pursuing other
5 compliance options available under federal and state
6 law or changing to a different compliance option at
7 a later date.

8 Together, New Rule I and II aim to protect water 9 quality, improve permittees' ability to affordably 10 comply with nutrient permit limits, fulfill the 11 requirements of Senate Bill 358 and MCA 75-5-321, 12 and comply with the Montana Water Quality Act and 13 the federal Clean Water Act.

The Department remains committed to working with permittees to identify the most appropriate and useful means of achieving compliance with their permits and remains committed to protecting water quality and beneficial uses for the benefit of all Montanans and the environment.

I have several documents to submit for the record: A copy of the Department's introductory statement, which I have just read, and an analysis that these rule changes are not more stringent than federal regulations or guidelines and do not have takings implications.

This concludes the Department's introductory 1 2 statement. 3 Thank you. HEARING OFFICER MOSER: Thank you. Let the 4 5 record reflect I'm taking those documents that Ms. Krywaruchka had just mentioned that she was 6 7 providing for the record. I'm taking them into the 8 record now. Okay. Are there -- now I'll go to -- if there 9 10 are any proponents -- are there any proponents of this rulemaking, people who are in favor of the 11 rulemaking, who wish to testify here in person 12 today? 13 Seeing none, is there anyone online that 14 Okay. 15 wishes to -- any proponents of the rulemaking who wish to testify that are online today? 16 MS. JOHNSON: If you are for this 17 18 amendment, can you raise your hand, and I will 19 promote you to speak. 20 Seeing none online. 21 HEARING OFFICER MOSER: Okay. Seeing none 22 online, are there any persons here who oppose this 23 rulemaking who wish to testify in person today? 24 Okay. Please, I guess, approach the -- I don't 25 have a list of those people that I can -- I think

you signed up in the back, so if you would please 1 come to the podium and -- and testify. 2 Please state your name and your affiliation. 3 MR. WOOLEY: I'm Ken Wooley, general 4 5 manager --MS. JOHNSON: Click on microphone. 6 7 MR. WOOLEY: I'm Ken Wooley. I'm the 8 general manager at the -- for the Montana operations 9 for Westmoreland. I'm also submitting extended comments, so I'll support those with brief oral 10 11 comments. I'm here to present comments on the proposed 12 nutrient water quality standards detailed in Montana 13 MAR 17-434. Westmoreland has proudly operated in 14 15 Montana for many years with our Absaloka, Rosebud, and Savage mines, contributing significantly to the 16 state's economy while upholding the highest 17 18 standards in safety and environmental reclamation. 19 However, we have several critical concerns about 20 this proposed rule. 21 Firstly, the translation of nutrient standards 22 to numeric values directly opposes the legislative directive to establish narrative standards as 23 24 directed in MCA 75-5-321 and Senate Bill 358. The 25 proposed numeric standards for total nitrogen and

1	total phosphorous remain largely unchanged from the
2	previously unachievable Circular DEQ-12A standards,
3	particularly impacting the eastern ecoregion.
4	Furthermore, the introduction of numeric
5	standards for response variables complicates
б	compliance unnecessarily. These standards risk
7	deeming a water body noncompliant on this
8	technicality despite it supporting all beneficial
9	uses. This reinstates the unachievable numeric
10	standards outlawed by the legislature and adds new
11	previously unregulated parameters heightening
12	compliance risk for permittees.
13	The response variable standards are problematic,
	particular in the eastern ecorogian where discolude
14	particular in the eastern ecoregion where dissolved
14 15	oxygen delta must be monitored under impractical
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15 16	oxygen delta must be monitored under impractical conditions. August often sees intermittent streams
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15 16 17 18 19 20 21 22	oxygen delta must be monitored under impractical conditions. August often sees intermittent streams reduced to isolated pools, making the required 14-day continuous monitoring unrealistic. Additionally, the introduction of biotic insects, Version 3, is not an industry standard. It raises concerns due to its lack of validation and unexplained deviation from established metrics like

25 justify the impossibly low numeric standard for

protecting recreation and aquatic life. Standards based on subjective public opinion surveys fail to differentiate between natural and anthropogenic algae levels, making them unsuitable for regulatory purposes.

We are also troubled by the delay in revising 6 7 existing total maximum daily loads, TMDLs, to align with narrative standards. The proposed three to 8 five years of data collection before considering the 9 water quality compliance determinations and TMDL 10 revision is unjustified and leaves the repealed 11 DEQ-12A scheme in place contrary to the legislative 12 13 direction.

Additionally, the lack of clear permitting guidance under the proposed rules create uncertainty and potential for permit limits that exceed the capabilities of even state-of-the-art treatment technologies. This imposes substantial economic and technical burdens on existing and new dischargers, effectively hindering development.

21 Another concern is the reliance on compliance 22 schedules, variances, and adaptive management plans. 23 These are not proven or effective long-term 24 solutions. They provide temporary relief, at best, 25 and come with substantial litigation risks.

Ultimately, the standards and resulting effluent 1 limits must be met, but current technology does not 2 support achieving these standards. This reality 3 poses severe legal and operational risk for 4 permittees. When Montana first considered numeric 5 standards for total nitrogen and total phosphorous, 6 7 the legislature acknowledged the significant economic impact of such regulations. Numeric 8 standards were contingent on variances being 9 available for both public and private dischargers. 10 However, private dischargers were denied general 11 variances by the EPA and there remains no clear 12 pathway to obtain one. The Ninth Circuit upheld 13 public general variances, noting that water quality 14 15 standards must protect public welfare, which includes considering substantial and widespread 16 economic impacts. Therefore, implementing numeric 17 18 nutrient standards is not consistent with 19 legislative or federal Clean Water Act intentions. 20 The proposed rule reinstates these numeric standards 21 without addressing the negative economic impacts contrary, again, to legislative direction. 22 23 In conclusion, Westmoreland strongly urges the 24 Department to suspend the proposed rule package in 25 MAR 17-434. The focus should be on development of

truly narrative standards that meets legislative 1 requirements and practical environmental management 2 needs without imposing undue burdens. 3 Thank you for your attention and the opportunity 4 5 to present. HEARING OFFICER MOSER: Thank you. 6 7 MS. MCINNIS: Good morning. I'm Amanda McInnis. I'm a professional engineer licensed in 8 9 the state of Montana. I have a master's degree in nutrient removal design for wastewater treatment 10 facilities. I've worked for more than 25 years in 11 the state of Montana doing facilities planning for 12 Montana cities. I've worked for the City of 13 Billings, City of Missoula, City of Bozeman, City of 14 15 Great Falls, and the City of Helena. I'm also providing testimony today on behalf of Dave Clark 16 from HDR testifying in opposition to MAR 17-434. 17 18 I want to start my testimony by reminding DEQ

19 that Montana cities and towns have developed -- have 20 invested more than \$400 million in capital in 21 removing nutrients in Montana watersheds under a 22 narrative system. We continue to invest millions of 23 dollars in operations, power, and chemical 24 consumption year after year. Our stakeholders have 25 done more to address nutrients in Montana watersheds 1 than any other group.

Senate Bill 358 requests development of an 2 adaptive management plan. However, the adaptive 3 management plan as it's proposed in this rule 4 5 package drives point sources to higher levels of treatment for phosphorous immediately based on 6 7 numeric ecoregion values rather than focusing on locally developed adaptive management plans to 8 develop more appropriate actions. This approach is 9 really a nutrient approach rather than a narrative 10 approach as called for by Senate Bill 358. 11

12 And the first step in the flowchart included in 13 the package removes all incentives that the 14 discharger would have to enter into an adaptive 15 management plan and, in fact, provides disincentives 16 in the form of requiring additional monitoring even 17 if the point source has already invested for the 18 limits of nutrient technology.

19 The proposed rule, circular, and guidance 20 documents do not describe how MPDES permit limits 21 will be formulated. This is vital to our members. 22 The structure of effluent limits in MPDES permits 23 may in and of itself determine whether compliance is 24 technically feasible. Effluent limits that are 25 over-specified using historical EPA guidance that are focused on toxins rather than nutrients can result in a combination of concentration and mass based on short timeframe that are infeasible to comply with even with the best designed and operated treatment facilities and are unnecessary for the management of nutrients in our watersheds.

7 For the ecoregions of Montana, the proposed numeric standards for total nitrogen and total 8 phosphorous are orders of magnitude lower than what 9 can be achieved with conventional nutrient 10 technology. In many cases the proposed numeric 11 standards for total nitrogen and total phosphorous 12 are substantially lower than what we can achieve. 13 Energy use, chemical use, excess solid residuals, 14 15 and damaging greenhouse gas emissions are not 16 considered in any way. Nitrogen removal at these levels requires supplemental carbon emissions using 17 18 dangerous chemicals such as methanol, which is often 19 produced using natural gas or coal. Most of 20 methanol is produced in the South and the Midwest 21 and would come to Montana in tanker trucks to comply with the rule. This rule actually moves many of our 22 23 dischargers away from their climate action goals in 24 an effort to comply with the proposed standards. 25 At this same time the cost and complexity to

1 accomplish these goals is what is called out in
2 EPA's own 2021 life cycle cost divestment and calls
3 on the regulating community to carefully consider
4 the higher power and chemical consumption associated
5 with lower and lower nutrient removal.

Installation of approved treatment systems 6 7 requires planning, funding, and coordination that takes extended periods -- extended time and 8 resources. The municipal dischargers have often 9 expressed this need time after time, illustrating 10 that they need both -- to both plan and seek funding 11 from their constituents far in advance of compliance 12 Therefore, all the dischargers need a clear 13 needs. way to anticipate what their permit limits will be 14 15 under the proposed rule. No clear way of determining the permit limits has been provided in 16 writing or as part of the proposed rules, leaving 17 18 our permittees with an unworkable proposal. 19 There are other issues in the proposed

20 rulemaking. While MDEQ added additional response
21 variables to provide more diversity in the package,
22 they added -- the exceedance of one of those single
23 values does not -- if there's independent
24 applicability of each of the response variables, one
25 single exceedance of a numeric or aquatic life

1	standard does not equate to impairment of a
2	recreational beneficial use. DEQ has selected
3	single exact values for response variables as the
4	proposed method of determining compliance with the
5	nutrient standards over large ecoregions that cover
6	the western half and eastern half of the state.
7	That high degree of specificity is inconsistent with
8	the high degree of variability of individual
9	watershed responses and nutrients and the high
10	degree of variability in even the monitoring
11	techniques used to gather data for these parameters.
12	It also was blind to the priority of the
13	stakeholders in the in individual watersheds.
14	DEQ-15 fails to consider the actual degree of
15	beneficial use support or the technical feasibility
16	or affordability of compliance with the proposed
17	package. Recreation on our rivers does not end, nor
18	does aquatic life cease to exist, if a single value
19	selected for a response variable, like
20	chlorophyll a, is exceeded. Site-specific watershed
21	conditions are more variable than these single
22	values represent. The response of individual
23	streams to more nutrients is more uncertain than
24	these single statewide ecoregion values suggest.
25	Further, beneficial use is not impaired by exceeding

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1	a single value and expression of nutrient impacts on
2	surface waters occur over a gradient of changes, not
3	a single numeric value.
4	Thank you.
5	HEARING OFFICER MOSER: Thank you.
б	Ms. McInnis, just for the record again, I
7	think I missed it at the beginning were you're
8	testifying on behalf of
9	MS. MCINNIS: On behalf of the Montana
10	League of Cities and Towns. Sorry. Yep.
11	HEARING OFFICER MOSER: Thank you.
12	How many more folks are planning on providing
13	testimony here today?
14	Okay. Go ahead.
15	MR. ENGELS: Good morning. My name is
16	Louis Engels. I'm the water quality superintendent
17	speaking on behalf of the City of Billings. I'm
18	also the large municipal representative on the
19	Nutrient Work Group. I'm also representing the
20	large cities today, and you will hear from several
21	of them after me.
22	I just want to talk about three things today.
23	One is just our commitment to water quality and
24	science. Also, I'm going to talk about five reasons
25	that we oppose this rule and five reasons that or

things to take back to the drawing board that we 1 request after putting this rule on pause. 2 So let me talk about our commitment first. 3 Amanda mentioned this briefly, but no group has 4 spent more on water quality in this state than 5 Montana's cities and towns. Collectively we've 6 7 spent over \$400 million dollars to upgrade our treatment facilities to remove nutrients. 8 Tn Billings alone we've spent \$82 million to date to 9 remove 90 percent of the nitrogen and soon to 10 be 95 percent of the phosphorous being discharged 11 into the Yellowstone River. 12 Our team of scientists and engineers operate 13 these facilities 24/7, 365. They don't have the 14 15 luxury of going home, and they're all environmental stewards keenly focused on protecting our precious 16 watersheds. In Billings alone we have over 50 staff 17

18 dedicated to the conveyance and treatment of 19 wastewater and safely returning it to the 20 Yellowstone River.

21 So let me get into the reasons why I oppose and 22 we oppose this rule. So the first reason is 23 utilities in Montana may be forced to put what is 24 effectively drinking water treatment plants at the 25 end of our wastewater treatment plants, costing hundreds of millions of dollars beyond what we've
 already expended.

Number two, little to no water quality 3 improvements are expected, with potential 4 environmental harms, including greenhouse gases and 5 additional chemicals that will be required to treat 6 7 to these levels. In Billings alone, if were taken to the limit of technology, we would be spending 8 about 1300 pounds of coal every hour -- the 9 equivalent of in power -- to power the facility to 10 treat to the standard. Additionally, no technology 11 exists to meet the water quality standards as 12 presented in the rule if taken at our outfalls. 13 They're still an order of magnitude lower than what 14 15 we can achieve with the best available technology. Fourthly, DEQ has not provided information on 16 how permits are to be written in combination with 17 18 this rule. DEQ has told us to trust them and the 19 permitting guidance will be provided later. We need 20 to see the permitting guidance before we could 21 support any rule package moving forward.

The Montana League of Cities and Towns and industry agree that this shouldn't move forward in addition to environmental groups who also oppose this rule moving forward.

1	So I don't want to just speak about problems.
2	I'm bringing forth five things to consider when
3	taking this back to the drawing board. Firstly,
4	being clarity on how permits will be written. We
5	can't support the rule without first receiving
6	guidance on how the rule will be implemented.
7	Additional clarity on what constitutes reasonable
8	potential to cause or contribute to an exceedance of
9	a water quality standard would help us support this
10	rule.
11	Number two, focus on response variables algae
12	and bug health not the numeric nutrient criteria
13	that was repealed in Senate Bill 358. Right now we
14	still have numeric nutrient criteria in this rule
15	even though the numerics were repealed.
16	Thirdly, a more workable adaptive management
17	plan with clarity and incentives for utilities to
18	enter. Currently I don't know of one utility that
19	will enter into the adaptive management plan that's
20	currently written in DEQ Circular 15.
21	Number four, DEQ has stated that they don't want
22	us to put drinking water treatment plants at the end
23	of our wastewater treatment plants, but
24	unfortunately we don't see that in the rule package.
25	We ask for assurance that utility be forced to put

1	drinking water treatment plants at the end of our
2	wastewater treatment plants so that costs aren't
3	driven up and people are forced more people are
4	forced to be put on wells and septic tanks.
5	A finally, consensus on what it will cost
6	Montana to implement these rules. Right now there
7	is a grand canyon of difference between what
8	engineers think it will cost our utilities and what
9	DEQ says it will cost.
10	Finally, I'd just like to say we aren't
11	quitting, we aren't going anywhere. We will
12	continue to work on this. I myself and others have
13	attended over 50 Nutrient Work Group meetings. We
14	want what's right for our rivers, we want what's
15	right for our environment, and we want what's right
16	for Montanans.
17	Thank you.
18	HEARING OFFICER MOSER: Thank you.
19	MR. COLEMAN: Hello, and thank you for
20	being here. My name is Ed Coleman, C-o-l-e-m-a-n.
21	I'm the deputy public works director for the City of
22	Helena, and if I start going too fast, please stop
23	me.
24	First off, I'd just like to say that the city is
25	a strong advocate of the protection of water

1	quality. We take great pride in the efforts that we
2	take for environmental stewardship. We live here in
3	this valley. We live in this watershed. We raise
4	our families here. We're proud of what we do. The
5	last thing we want to do is to taint the water
б	quality.
7	The folks before me did a phenomenal job,
8	although I'm a little concerned the coal guys are
9	changing their testimony right now hearing how much
10	coal it's going to burn to meet these limits, we'll
11	just go ahead.
12	So anyway, so initially what I'll touch on is
13	some procedural concerns. Back in 2021 when this
14	effort started after Senate Bill 358 passed, the
15	City of Helena was an interested party and was
16	denied access to deliberative documents so that we
17	could participate in the process. This goes against
18	Montana Constitution, as well as some statutes.
19	Secondly, we've had some issues where material
20	has come out and, Kurt, I do have an email that
21	documents that. And secondly, we do have some
22	concerns that deliberative documents were provided
23	at the last minute, not giving us the ability to
24	comment on them and provide informed and meaningful
25	discussion, especially at public meetings. This is

1	true just up until recently when we received the
2	environmental impact analysis after the or right
3	before the WPIC meeting where we would have actually
4	been able to speak intelligently to that and may
5	have actually swayed some of WPIC through requesting
6	an informal objection at that point in time.
7	And then I'll just jump to rule content. The
8	folks before me did a great job on that, and we have
9	some other technical people after. But so I will
10	talk a little bit outside of my ballpark here, but
11	for discussion of chlorophyll a as a as an
12	adaptive management, as a sorry. I lost my
13	place.
14	But anyway, the chlorophyll a standard for
15	protoction of regrestion is a single number
	protection of recreation is a single number.
16	It's 150 milligrams per meter squared or something
16 17	
	It's 150 milligrams per meter squared or something
17	It's 150 milligrams per meter squared or something along those lines. The concern that we have is that
17 18	It's 150 milligrams per meter squared or something along those lines. The concern that we have is that really should be a range. I'm not going to go to
17 18 19	It's 150 milligrams per meter squared or something along those lines. The concern that we have is that really should be a range. I'm not going to go to the creek to go fishing and be like, Oh,
17 18 19 20	It's 150 milligrams per meter squared or something along those lines. The concern that we have is that really should be a range. I'm not going to go to the creek to go fishing and be like, Oh, it's 145 milligrams per meter squared on that rock;
17 18 19 20 21	It's 150 milligrams per meter squared or something along those lines. The concern that we have is that really should be a range. I'm not going to go to the creek to go fishing and be like, Oh, it's 145 milligrams per meter squared on that rock; I'm good to go at 155. I'm going home, my day is
17 18 19 20 21 22	It's 150 milligrams per meter squared or something along those lines. The concern that we have is that really should be a range. I'm not going to go to the creek to go fishing and be like, Oh, it's 145 milligrams per meter squared on that rock; I'm good to go at 155. I'm going home, my day is over.

1	when we're talking about protecting recreation,
2	where the how green is too green probably came out
3	two decades ago, and we've seen a significant
4	increase in river user days, whereas views have
5	likely changed on what should be expected. Increase
б	of development along streams and rivers has grown
7	exponentially, so therefore there's more there
8	are more influences of fertilizer and septics.

9 And then I would also like to see that Figure 1.1 in C -- DEQ Circular 15 was proposed as 10 11 to be revised. Nobody can really understand this I've asked multiple people to explain it to 12 chart. We don't get it, so if we could get a workable 13 me. chart, because that is really important because it 14 15 outlines the implementation of narrative nutrient standards and steps in the adaptive management 16 17 program.

18 And then also talking to -- talking about the rule implementation impacts, and I brought this up 19 20 on several times. The City of Helena, along with 21 the other municipalities, if we are caused -- or if 22 these rules cause us to make significant 23 improvements to our wastewater treatment plans, 24 those impacts and those costs are going to fall to 25 our ratepayers, many of which can't really afford

1	them. Also, there's a huge push and need for
2	affordable housing in all Montana communities. The
3	key to that is being able to connect to city
4	services so we can have higher density housing.
5	With high connection costs and with higher monthly
6	rates for utilities, that's going to be dissuading
7	people from being able to fulfill those needs for
8	affordable housing. It's just one of the factors,
9	or else we're going to be dealing with more urban
10	sprawl, more septics. It's just adding to the
11	challenge.
12	And then as far as I'll go back to what
13	Lin or Lindsey I'll go back to what Lewis
14	and Amanda said. I mean, there are real-life
15	concerns about the increase in chemicals, about the
16	increase in energy and everything along those lines
17	associated with increased greenhouse gas emissions
18	and an increased carbon footprint when we're talking
19	about doing these major upgrades to our plant. I
20	have a quote in my comments for a healthy Montana,
21	but I forgot my glasses, so I'll have to go back on
22	that one right now.

And last but not least, you know, we do really appreciate the efforts put forward. We know you guys have spent a lot of time on this. We have too.

1	You know, I've been to probably about 50 meetings,
2	as well as Louis. I mean, so this this is a big
3	deal. This is a big deal for all of us where one
4	sentence, one word matters. That's why we'd just
5	like to see this this rule package slow down,
6	have DEQ withdraw it voluntarily, and let's hit the
7	brakes, and let's work together and do this right.
8	This goes back to 2014 when the numeric standards
9	were adopted. I mean, we've been fighting this for
10	a decade. So I would really recommend that we
11	withdraw this, we work together, and we find a
12	workable solution.
13	So thank you very much for your time. And,
14	Kurt, if you want to examine me, I'm available.
15	HEARING OFFICER MOSER: Thank you,
16	Mr. Coleman.
17	MR. COLEMAN: Where would you like the
18	written comments?
19	HEARING OFFICER MOSER: You can just
20	provide them to me right here.
21	MR. COLEMAN: Thank you.
22	HEARING OFFICER MOSER: Thank you.
23	Other opponents that wish to testify in the room
24	today?
25	MS. LASHLEY: I'm Rika Lashley. I'm the

representative for the small dischargers and lagoon systems on the Nutrient Work Group, and I'm also a registered engineer with the State of Montana with 18 years of experience working with small communities and larger ones, both for planning, for assessment of existing facilities, wastewater facilities, and also design and cost estimating.

My first topic regarding economic impact 8 statement. If I read this right, it really only 9 provides the cost of inaction, not so much what the 10 cost would be if incremental implementation of 11 measures was done to -- as proposed under the 12 adaptive management program to improve beneficial 13 So in that I feel that that economic impact 14 uses. 15 statement is incomplete.

And then also looking at it, it only mentions 16 small dischargers kind of marginally. It did not 17 18 really provide enough detail. There's some 70 or so 19 lagoon facilities with surface water discharge 20 permits, and about three-quarters of them serve 21 communities with a population of 1,000 or less. And just under half of them serve communities of 22 23 only 500 people or fewer, so very small communities. 24 And so the Department also made available the information on the 2019 economic impact analysis 25

1	done by map. And looking at that, there were a
2	handful of examples of small and very small
3	dischargers. But for all of them the analysis
4	assumed that they can stop discharging during the
5	months when nutrient standards are in effect. That
б	might be working for some of them, but possibly not
7	for all of them. And so, again, this this
8	analysis did not include did not look the cost
9	for a community that has to implement nutrient
10	treatment and what that would mean for their repairs
11	there.

12 And we all know economies of scale work 13 backwards for small communities. And so for them, 14 any investments into treatment are actually 15 proportionately much higher than for bigger cities, 16 where there are simply more ratepayers to support 17 those.

18 So at that point an adaptive management program would probably look very good to a small community, 19 20 except -- and this is my second part -- what DEQ-15 21 is currently presenting, how it's worded, and how 22 the flowchart in Figure 1.1 is set up. It all says that permits will -- sorry -- limits will be put in 23 24 the permit in the beginning, then they can enter an 25 adaptive management plan where there would be this

incremental approach. But any community that has a 1 limit in their permit is required to work toward 2 complying with the permit; right? So if you're then 3 looking at -- looking for funding, looking how to 4 make that work, investing in the adaptive management 5 plan doesn't make any sense because there's also 6 7 costs associated with that; right? So we don't want to spend money on that if we're already needing to 8 plan for complying with the limit in the permit. 9 And so that approach then, if we're not doing 10 adoptive management planning, that approach does not 11 allow for looking at other sources of nutrients in 12 those streams. It does not allow for looking at 13 14 what would this upgrade actually do to the stream 15 health or to protecting beneficial uses. That approach does not allow for really planning and 16 incrementally -- incrementally implementing measures 17 18 that would slowly and surely benefit that stream and 19 initially maybe return the beneficial uses and 20 ultimately protect them.

Part of the issue of that is that there is very much a lot of questions about how reasonable potential is determined and how what is currently in DEQ-15 standards, how they're put into permits. And this has been said before, and I'll think you'll

1	hear it again, that clarity needs to be there before
2	anybody can be comfortable with what's presented in
3	DEQ-15, and that clarity does not exist.
4	And then I know that variances are mentioned as
5	one tool in the toolbox to respond to strict
б	nutrient standards that can't be that either are
7	financially not achievable or technologically not
8	achievable. Variances have their own set of
9	problems like limited timeframes, ramping down of
10	the highest achievable condition, or HAC. But I
11	guess variances aren't really a part of this rule
12	package, so I'll leave it at that.
13	And so I just very much believe that a lot more
14	work is needed to make DEQ-15 a workable setup, a
15	workable document that presents an affordable
16	adaptive management program that's effective for
17	protecting and improving beneficial uses and
18	consider economic impact and and watershed-wide
19	nutrient sources potential, and, also has been
20	stated, other potential environmental impacts by
21	having to implement really high grade level
22	treatment solutions.
23	HEARING OFFICER MOSER: Thank you.
24	Other opponents that wish to testify here today?
25	MR. KUHTZ: Good morning. I'm Shawn Kohtz,

1	the City of Bozeman utilities director representing
2	the City of Bozeman. So Bozeman is supportive of
3	the concept of nutrient adaptive management as
4	intended by SB 358. We believe that this is a
5	solution that can work to improvement nutrient water
б	quality for our water in the East Gallatin River.
7	However, we need to understand how discharge permits
8	will be written in the proposed standards.
9	(Court reporter clarification.)
10	MR. KUHTZ: We do not have that clarity
11	now. We do not support the rule package proposed as
12	a result.
13	To tell Bozeman's story a little bit, we've made
14	significant investments in our wastewater treatment
15	plant to remove nutrients. We've done that over a
16	decade ago now to remove 90 percent of nitrogen and
17	greater than 95 percent of phosphorous. So we've
18	been heavily invested in that. As many of my
19	Montana League of Cities and Towns colleagues have
20	indicated, we're part of that \$400 million
21	investment statewide.
22	Going forward, without a working adaptive
23	management plan, Bozeman would be subject to
24	nutrient discharge limits that would require
25	removing greater than 99 percent of nitrogen and

phosphorous. Such treatment limits come at a very high cost to remove in terms of removing phosphorous and are simply unachievable with respect to nitrogen. All of this for a minute incremental improvement.

I've got with me a handout, and I'll provide 6 7 this at the end of my public comment, that is a facility planning document for the City of Bozeman 8 that outlines what the limit of technology nutrient 9 removal system would cost for the City of Bozeman. 10 But that cost is \$92.4 million in 2022 dollars. 11 Our ongoing O&M costs for such a facility would 12 be \$2.5 million, with 20-year present worth costs 13 of \$126 million. In essence, a drinking water 14 15 treatment plant would be added as a final step in the treatment process, resulting in fractional 16 reductions in nitrogen and phosphorous that not only 17 18 come at an extraordinary capital cost, they require 19 amounts of energy and chemical inputs, expanded 20 carbon footprints and greenhouse gas emissions, and 21 are expensive and complicated to operate. All of this, again, for a minor incremental improvement to 22 23 improve nutrient water quality that falls on the 24 backs of Bozeman's utility ratepayers. 25 I talked to my finance director yesterday about

this, and we're still paying off improvements for our last treatment plant upgrade. And our current bonding capacity is about \$20 million, and we --Bozeman couldn't even afford to bond for such a wastewater treatment plant.

So if we look at watershed scale solutions, you 6 7 now, we do believe we can do better. Other solutions are poised to attain nutrient water 8 quality standards over time that come at lower costs 9 and much higher water quality benefits. We believe 10 the adaptive management framework under a narrative 11 water quality standard intended by SB 358 is the 12 13 path to get there. If Bozeman focuses its 14 investments strategically on reducing nutrient 15 pollution under an adaptive management program such as connecting areas of dense residential septics to 16 municipal sewer, partnering on watershed scale 17 18 projects to implement nutrient BMPs, and restoring 19 wetlands on tributary streams, we believe we can 20 attain a narrative nutrient water quality on 21 standard this scale. The AMP is a watershed-focused community-based solution to attaining water quality 22 improvements that benefit all Montana's residents 23 24 and visitors.

25

Bozeman wants to see AMPs work. To ensure AMPs

1	work in alignment with SB 358, additional time is
2	needed for DEQ in consultation with the Nutrient
3	Work Group to develop discharge permitting guidance
4	under an AMP to provide reasonable permitting
5	assurances that water quality progress is being made
6	to achievable permit limits.

7 I'd like to recognize the effort that DEQ has put into DEQ Circular 15 and its guidance. 8 An 9 enormous amount of work has gone into producing the draft bills. Nonetheless, there are several 10 outstanding items that require attention. The rules 11 do not contain details sufficient to understand how 12 discharge permits will be written under the 13 narrative standard. It is imperative that the rules 14 15 clearly set forth how the limits be calculated and how interim permit limits will be applied. 16

So a path forward. We're submitting a letter. 17 18 I'll provide that at the end of my public record that provides specific and additional technical 19 20 comments, as well as a review of rule validity under 21 the Montana Administrative Procedures Act. Although 22 we do not support the current draft rule package as 23 is, we see a path forward to allow an adaptive 24 management framework to work effectively at a watershed scale, provide necessary detail and 25

1	clarity for permit writing, and allow sufficient
2	time for incremental watershed improvements to be
3	made in lieu of implementation of limit of
4	technology nutrient treatment at wastewater
5	treatment facilities.
б	Thank you for your time.
7	HEARING OFFICER MOSER: Thank you.
8	Are there further opponents that wish to testify
9	here today?
10	MR. VINCENT: Thank you. Matt Vincent,
11	V-i-n-c-e-n-t, representing the Montana Mining
12	Association as well as a coalition of point source
13	dischargers and other interested parties that have
14	been tracking this for some time. I've been a
15	member of the working group for the last nearly two
16	years, and my predecessor was there since its
17	inception.
18	You know, this is the public hearing, so I'll
19	say a few words, but we believe that that
20	everything has really been said. A lot of the folks
21	that have already gotten up are part of the
22	coalition that is going to be submitting this
23	package of over 400 pages of supporting
24	documentation, evidence of input that we've put
25	forth, our concerns from both a technical standpoint

1	as well as an economic standpoint. I think to
2	really kind of summarize, we just feel that these
3	rules are they're they're not legal, they're
4	not practicable, and they don't meet the legislative
5	intent of Senate Bill 358 from the '21 session.
6	Overly complex in the rules and excessively vague in
7	how they will be translated into permits, which is
8	just an untenable combination for both industry and
9	municipalities.
10	I would like to close by, I guess, drawing maybe
11	on some of the things that Ed Coleman said. I mean,
12	we recognize the amount of effort and time that the
13	Department staff has put into this package. And,
14	you know, MMA and the rest of industry, as well as
15	the municipal partners, have exerted significant
16	resources as well. But there's just too many
17	unresolved concerns and unanswered questions for
18	these to be ready for adoption. And so, you know,
19	we we thank you for considering what what we
20	have laid out here. And I would say that, just for
21	clarity, the coalition is the Montana Mining
22	Association, the Montana Petroleum Association, the
23	Treasure State Resources Association, the Montana
24	League of Cities and Towns, the Montana
25	Infrastructure Coalition, and the Montana Chamber of

1	Commerce. So it covers a wide variety of input and
2	concern relative to these rules.
3	But we we hope you'll consider this one final
4	time and make the right choice on this, at which
5	point we are ready to work with the Department to
6	come up with an alternative path for us to be able
7	to figure out how we move forward and come up with
8	some rules that are workable, but also protective of
9	water quality.
10	Thanks.
11	HEARING OFFICER MOSER: Thank you,
12	Mr. Vincent.
13	Further opponents that are here today that wish
14	to testify?
15	MR. MCINNIS: Hello. My name is Logan
16	McInnis. I'm the deputy public works director for
17	the City of Missoula. I oversee the water,
18	wastewater, and stormwater utilities. I'm also an
19	engineer with about 18 years' experience working
20	with Missoula and other communities of Montana.
21	Preserving water quality is one of things most
22	valued by the citizens and local government
23	officials in Missoula. The city proactively
24	participated in negotiating the voluntary nutrient
25	reduction program, or VNRP, which is a TMDL still in

effect on our segment of the Clark Fork River. 1 The VNRP led the City of Missoula to building the second 2 major biological nutrient removal, or BNR, plant in 3 Montana. DEQ staff have told us that this rule has 4 5 no impact on Missoula because we operate under an existing TMDL, but it is clear that the Clark Fork 6 7 River TMDL will be reevaluated in the next few years as there's a lot of growth going on in our neck of 8 the woods, so we feel we're going to be impacted by 9 these rules just as much as everybody else in 10 11 Montana.

The economic impact to Missoulians has not been 12 a factor in DEQ's economic analysis. Our 2019 13 facility plant document shows that to improve our 14 15 plant to meet the highest attainable conditions, the cost at that time would have been \$52 million. 16 And with the more than 50 percent inflation that's 17 18 occurred in our industry in that time, that cost now 19 exceeds \$75 million. And, of course, the cost to 20 achieve the actual nutrient levels of RO would 21 venture into the hundreds of millions of dollars. We do not believe that it is in our citizens' best 22 interest to make investments of tens of millions of 23 24 dollars to meet variance levels that we are told 25 would be reevaluated every three years. These

variance levels could change, resulting in a need 1 for additional millions of dollars in investment. 2 Missoula, like many other communities, would be 3 better off investing those tens of millions of 4 dollars buying up land and land to apply wastewater 5 to avoid nutrient standards, thus depriving our 6 7 state fisheries of water at a time when stream flows are most critical. 8 We agree that many dischargers should be asked 9 to do something about their nutrient discharge, but 10 we don't think it makes sense to ask our large BNR 11 systems to install additional infiltration and 12 infrastructure to go well beyond the 80 13 to 90 percent nitrogen removal that they already 14 15 accomplish. The City of Missoula would rather make reasonable investments and improvements in our 16 watershed that could make measurable improvements in 17 18 water quality. We could invest in projects that are 19 known to reduce nutrient loading of rivers, like 20 installing riparian fencing to keep cattle out of 21 the river. But we are only willing to make these 22 sorts of investments if the DEQ can provide us with 23 assurances that these improvements would satisfy our 24 permit requirements. DEQ has not provided any safe harbor for municipalities that stand to risk 25

millions of dollars not knowing whether a completed 1 project will meet our permit limits. 2 DEQ also states that even if our projects remove 3 nutrients, if other upstream sources of nutrients 4 increase, the city will need to do more to remove 5 those nutrients as well. We cannot be held 6 7 responsible for other non-point source discharges in the watershed that continue to keep the Clark Fork 8 River baseline water quality above the DEQ ecoregion 9 10 values. We could also continue to make investments in 11 connecting septic tanks to our facility, removing 12 13 aging systems that most experts agree are adding significant nutrients to our waters. But DEQ has 14 15 indicated that only a nominal nitrogen credit will be given for septics that have been removed from 16 service and connected to our VNR plant. This flies 17 18 in the face of DEQ's own data from the Bitterroot 19 showing that septic systems contribute four times 20 more nitrogen than a municipal wastewater treatment 21 facility on a per capita basis. 22

The DEQ wants the city's ratepayers to take them at their word that this will have no financial impact to the city based on the economic analysis or take them at their word that our investment in AMP

1	projects will not be vain despite no safe harbor
2	provisions or guidance on project crediting, or that
3	we will not be required to install millions of
4	dollars in infrastructure to build tertiary
5	treatment plants to meet numeric standards that will
6	have almost no measurable benefit to the river.
7	Based on all these unknowns, the city can't ask its
8	ratepayers to take on that level of risk.
9	We also think there are many intended
10	consequences of casting such a wide net with these
11	rules. They will only further incentivize
12	development to focus outside of cities, where
13	projects are exempt from nutrient rules and from
14	water rate permitting. It also disincentivizes
15	developing areas building new wastewater plants or
16	lagoons. They will be subject to technically
17	unachievable standards. So septic systems will
18	remain the only viable system. Inability to build
19	new wastewater treatment systems will limit new
20	housing starts and further contribute to the
21	affordable housing crisis. These rules will also
22	add significantly to the carbon footprint associated
23	with wastewater treatment when the goal needs to be
24	reducing the carbon footprint. And the rules will
25	add to the skyrocketing cost of development as

1	impacting connection fees will need to increase to
2	pay for the required new infrastructure, making it
3	more difficult for many cities in Montana to meet
4	the need for adequate and affordable housing.
5	Montana should follow the lead of all other
6	states in EPA Region 8 who are taking more measured
7	steps to reduce nutrient pollution and proposing
8	standards that can actually be met. Instead, we're
9	trying to invent a management system to meet
10	unachievable standards, setting up a nutrient
11	permitting system destined to rely on costly
12	variances that will likely end up in court.
13	(Court reporter clarification.)
14	MR. MCINNIS: So instead of investing our
15	citizens' money in on-the-ground projects that
16	improve water quality, we will have no choice but to
17	continue hiring lawyers and consultants to help us
18	navigate a system of unachievable limits and find
19	limited variance.
20	I appreciate the opportunity to comment, and
21	thanks to everybody for all their hard work on this.
22	Thank you.
23	HEARING OFFICER MOSER: Thank you.
24	Further individuals that wish to provide
25	testimony opposing the rule?

1	MR. GAUB: Good morning. I'm Christoff
2	Gaub, G-a-u-b, the public works director for the
3	City of Great Falls. Thanks for this time to to
4	present our our viewpoint. I won't repeat
5	everything that my fellow municipalities have said,
6	but I definitely concur 100 percent with them.
7	I'm just going to give a little bit more
8	high-level look at this, kind of how I see it. I am
9	not a water quality specialist. I have not been
10	participating in the work groups because the person
11	who I did task with that is Jason Fladland, my
12	previous water treatment plant manager. He made a
13	career change, so I'm getting into the meeting
14	myself. But he has relayed a lot to me over the
15	last couple of years since I joined the City of
16	Great Falls in 2022.
17	I am a big believer in water quality. I grew up
18	walking out my back door in Bozeman to the East
19	Gallatin River and fishing. So so I definitely
20	appreciate water quality. I also did 28 years in
21	the United States Air Force traveling the world, and
22	I've seen a lot of places that have no water quality
23	or probably better defined as no negative water
24	quality. So I have a deep appreciation for good
25	water.

No decision should be made in a vacuum, so I 1 think we need to keep our -- the people that we 2 represent in mind, which in Great Falls is the 3 citizens of Great Falls. They are under a lot of 4 economic pressure, as we all are over the last few 5 years, with COVID and the effects of inflation. 6 The 7 last two years, including this year, we are increasing rates on utility, sanitation rates, 8 street assessments, et cetera. So their rates are 9 already going up. And then, as you all know better 10 than I do, we have a lot of other regulations and 11 other potentialities sitting out there between PFAS 12 and PFOS and forever chemicals. We have lead pipes 13 coming down the pike here. Plastics now --14 15 plastics, microplastics. So in other words, this is never going to end. So the pressure will never end 16 on our citizens and -- to -- to get clean water. 17 18 Now, again, that's highly valuable. What's it worth, what's water worth, that a good question. 19 20 So as I present things to the commission for 21 budget perspectives, I have to, you know, justify the dollars. You know, why are we spending all 22 23 these dollars. So real quick story, at our 24 wastewater plant, if you go to our outfall, we've 25 had people -- we get occasional phone calls or

concerns from people that say, Hey, we think you 1 might have an oil spill. And the reason they think 2 that is because when they look at the river, they 3 see black coming out of our outfall. What they 4 don't realize is that's because -- and we have to 5 educate them on this -- what they don't realize is 6 7 that's because the water that we -- that comes out of our wastewater plant is so clean you can see to 8 the bottom of the river, and it's a stark contrast 9 to the Missouri River. So what that means is the 10 water that we take in at our water treatment plant 11 upstream is much dirtier than the water that we 12 return back to the river. 13

So if we're already taking -- if we're already 14 returning the water cleaner than we receive it, how 15 can I justify to my citizens to, you know, invest 16 another \$100 million in another water -- you know, 17 18 basically another treatment plant. So if we're 19 going to invest, you know, that kind of money into 20 this infrastructure, maybe I need to start 21 considering, you know, for that kind of money, would we just pipe the water from the wastewater treatment 22 23 plant back to our water treatment plant, and just do 24 a closed loop system with that kind of significant 25 investment.

1	So those are kind of the discussions we're
2	having. Again, like many of the others have said,
3	you know, your return on investment is in is
4	in it's probably in the watershed. It's not in
5	the non-point sources where we've already reduced
6	the vast majority of nutrients and phosphorous. So
7	bottom line, we return the water cleaner than we
8	receive it, so what's the \$100 million for?
9	Thanks for your time. And I do have a one-page
10	summary that we provided to our to our commission
11	to provide to you today. Thanks.
12	HEARING OFFICER MOSER: Thank you.
13	MS. LEWIS: Good afternoon. My name is
14	Melissa Lewis, and I'm here today on behalf the
15	Montana Petroleum Association to provide public
16	comment on the water quality narrative nutrient
17	standard rulemaking. Executive Director Dave Galt
18	asked me to attend this meeting on his behalf today.
19	The Montana Petroleum Association represents
20	several hundred thousand or several hundred
21	hardworking women and men in Montana's petroleum
22	industry. Our associate members bring a wealth of
23	knowledge to the table to help Montana's oil and gas
24	industry to successfully navigate complex state and
25	federal issues while proactively planning and

1	preparing for the future. We have solid track
2	record of working with the state and the federal
3	government to adopt solutions that work for Montana.
4	Sage grouse comes to mind.
5	The Montana Petroleum Association has actively
6	participated in a coalition comprised of Montana
7	municipalities and their fellow industry partners,
8	some of whom have provided public comment today.
9	We've also engaged throughout the proposed
10	rulemaking and public comment period.
11	As most of us know, the proposed rulemaking
12	action attempts to implement Senate Bill 358
13	sponsored by state senator John Eck and adopted by
14	the 2021 Montana Legislature. In preparation for
15	today I actually went back and listened to the 2021
16	hearings. I found it really helpful to actually
17	hear the intent of Senate Bill 358, and maybe you
18	will also.
19	For the record, I would like to share a few
20	seconds of audio, which is very brief and to the
21	point.
22	(Audio played.)
23	MS. LEWIS: While the Department may
24	contend that the proposed rules actually do
25	eliminate numeric standards, its translator tool

	59
1	translates words, the narrative, into numbers,
2	numeric. The result is a numeric limit applied to
3	permitted facilities affecting all communities
4	across the state, small and large, and all permitted
5	facilities by the private sector as well. This
6	brings us right back to the very numeric standard
7	that Senate Bill 358 intends to eliminate.
8	The bill sponsor goes on to explain how Senate
9	Bill 358 came about.
10	(Audio played.)
11	MS. LEWIS: The bill sponsor finally closes
12	with very brief remarks.
13	(Audio played.)
14	MS. LEWIS: The Montana Petroleum
15	Association was actually the first proponent to
16	speak in favor of Senate Bill 358 with the bill
17	title "Repeal Numeric Standards." Today the Montana
18	Petroleum Association unfortunately rises in
19	objection to the proposed rules due to the clear and
20	direct conflict with legislative intent. We're also
21	very concerned about the communities in which we
22	live and work. You know, if Bozeman can't afford
23	this, we really think about the smaller towns, like
24	Chester and other small communities that are
25	watching and worrying.

1	It is worth noting that the Department has
2	contended that permittees may obtain a variance.
3	The private sector cannot obtain a general variance.
4	The private sector must apply, resulting in
5	multimillions of dollars of investment with
6	uncertainty of being able to even comply to the rule
7	as technology is not proven in all industrial
8	settings. Today it is my understanding that not one
9	private sector variance has ever been approved.
10	Thank you for holding this public hearing.
11	HEARING OFFICER MOSER: Thank you.
12	Additional opponent that wish to testify?
13	MS. LYNCH: Good morning. My name is Kelly
14	Lynch. I'm the executive director of the Montana
15	League of Cities and Towns.
16	These rules do not meet the intent or the
17	direction of SB 358. We asked for a robust
18	framework where permittees could operate under their
19	current loads while gathering the data for that
20	specific water to figure out what is happening in
21	that water and taking actions to see how the water
22	reacted. I want to be clear we have never suggested
23	this legislation be used to pollute our waters. Our
24	members, cities and towns of Montana, have spent
25	more resources than any other entity in Montana to

clean our waters. We have just reached the point 1 where we are literally flushing our taxpayer dollars 2 down the drain. It's time to refocus our efforts as 3 a state on a watershed approach. These rules do not 4 do that. Our collective organizations have just 5 provided you with hundreds of pages of documents 6 7 where we have asked you over and over to look at these rules differently and do what SB 358 directed 8 9 you to do. Instead DEQ has returned to numeric standards. These rules do not serve Montana, who 10 has primacy to create our standards. They do not do 11 what the legislature asked DEQ to do. They only 12 demonstrate EPA and DEQ's refusal to let go of 13 numeric standards that do not and have never worked. 14 15 There are so many other contributions to nutrients in a watershed that need to be taken into account, 16 and a true adaptive management program is the way to 17 18 do that. These rules do not propose that type of 19 AMP. Please suspend this rulemaking. 20 HEARING OFFICER MOSER: Thank you. 21 MR. IVERSON: Hello. My name is John 22 I'm representing the Treasure State Iverson. 23 Resources Association. We are cosigners on the --24 on the couple hundred pages there as well. And so there's just a couple other things that I'd like to 25

bring up, and it specifically relates to the
 economic impact statement.

I believe that economic impact statement relies 3 on incorrect assumptions and unsettled facts. 4 Specifically, it says in it -- and in the basis of 5 its analysis it talks about how, absent these rules, 6 7 we go back to the 12-A standards. We disagree that those 12-A standards are still in play, and so 8 therefore we disagree with the basis of the economic 9 assumption. We know these rules are going to have 10 significant impacts financially on the dischargers. 11 But what we can't figure out, between the DEQ and 12 13 the dischargers, is just how much that's going to 14 And what we do know is there's a huge canyon be. 15 between what the Department believes this is going to cost us and what we believe this is going to cost 16 17 us.

There's certainly people on both sides, good people acting in good faith, that are trying to come up with this answer. But we are a long ways apart right now between what the Department believes this will cost and what everyone else in the room believes this will cost.

24 So we ask that you pause these rules and we take 25 more time to put a -- sharpen the pencil a little

more so we can actually ascertain a real number for 1 the economic impact statement. 2 Thank you. 3 HEARING OFFICER MOSER: Thank you. 4 5 Anyone else present here today who wishes to testify on opposing the rules? 6 7 Okay. I will go --8 MS. JOHNSON: Are you --9 MS. WATSON: I'm speaking for information. HEARING OFFICER MOSER: Okay. We'll wait 10 then till the next step I have. 11 But, first, anyone online that wishes to testify 12 13 in -- opposing the proposed rules? 14 MS. JOHNSON: I'm promoting Butch. 15 Could you state and spell your name, and speak slowly and clearly for our court reporter in any 16 information you may have. 17 18 Butch, if you could unmute yourself. 19 HEARING OFFICER MOSER: Is that all we have 20 is Butch? 21 MS. JOHNSON: We have a couple others online as well. 22 23 HEARING OFFICER MOSER: Okay. 24 MS. JOHNSON: There we go. 25 MR. GILLESPIE: Is this good now?

MS. JOHNSON: Yes, sir. Please state and 1 spell your name --2 3 MR. GILLESPIE: Sorry about that. Yeah. Hit enough buttons and I'll get the right one. 4 Bruce Butch Gillespie up in Ethridge, 5 Yeah. Montana, on the Hi-Line. Rancher, livestock 6 7 nutritionalist, senator in Senate District 9, and I am on the WPIC committee. And I was at our last 8 meeting, and I was kind of a party of one to put 9 this whole thing on hold. And I guess I've heard so 10 much good testimony here today that I think, you 11 know, that is still on the very right track. I know 12 a lot of my counterparts kind of wanted to wait see 13 what happened here today, and -- and I just really 14 15 appreciate all the good testimony that was here. So based on that and kind of what I felt 16 already, it just looks, like as Mr. Iverson said, 17 18 there's a huge divide there between cost estimates. 19 And if -- if the large cities can't make it, our 20 little towns, small towns, which my district is full 21 of, darn sure probably isn't going to be able meet 22 the deal. So there has to be a way. I just can't 23 help but think -- I know we've spent time on this 24 and we need to get it wrapped up sooner rather than 25 later -- but there's just got to be a way here that

we can kind of combine good water with reasonable 1 cost. 2 So with that, thank you so much for your time 3 and taking the time to listen. 4 5 HEARING OFFICER MOSER: Thank you very much. 6 7 Next online, those who wish to testify in 8 opposition. 9 MS. JOHNSON: I am promoting Mary Harlow. If you could state and spell your name and any 10 affiliation you have, and speak clearly and slowly 11 for our court reporter. 12 13 MS. HARLOW: Yes. My name is Mary Harlow, H-a-r-l-o-w. I live at 3 Reeders Village Drive, 14 15 Helena, Montana. I am -- I am listening into this hearing today to tell you that as a citizen of 16 Montana, resident of Montana, a native Montanan, I 17 18 do not agree or support DEQ-15. I support numeric 19 standards regulating and enforcing MPDES permits on 20 upstream polluters, and I also am very concerned 21 about what is going with the whole language. I think these narrative standards are taking Montana 22 backwards. This is where we started. And I -- I 23 24 have listened to a lot of the -- the cities 25 and other agencies that are -- have MPDES permits,

1	and I have concern that nobody is talking about the
2	regulations here. And, you know, Montana is a
3	has primacy. And EPA Section 1413, the Clean Water
4	Act, provides for a state to have primary
5	enforcement responsibility for public water systems
6	and for programs based on science. It has five
7	conditions for primacy, and they're listed in
8	Section 14-3. And I think maybe some of the cities
9	and some of the other entities providing information
10	today should take a look at that.
11	The EPA considers numeric standards to be an

absolutely guarantee of clean water. The EPA must approve a change, deletion, addition to standards. Revocation of primacy, which we all should be concerned about, can occur if the state fails to enforce it. The EPA can directly overcede the state's water system. I don't think anybody on this hearing today would like to have that happen.

19 The state must use the authority to enforce the 20 drinking water regulations that are no less 21 stringent that the national drinking water act. If 22 Montana loses primacy, the DEQ documents state that 23 if this rulemaking does not advance, DEQ-15, and 24 replace the existing DEQ-12-A standards, communities 25 will have to comply with the requirements of the

1	numeric standards that were promulgated in 2014.
2	With a loss of state control, EPA will have to
3	substitute the effective federal standards in MPDES
4	permits on an independent basis or promulgate
5	DEQ-12-A as a federal numeric standard for Montana.
б	The EPA's oversight would be more expensive and less
7	flexible to achieve. EPA has already stated
8	nonsupport for SB 358, and I don't think anybody
9	has is acknowledging that. EPA acted on SB 358
10	on May 10, 2022. The EPA disapproved the repeal of
11	DEQ-12-A and informed Montana that the revisions
12	occasioned by SB 358 cannot be used for any Clean
13	Water Act purposes. The letters from Darcy
14	O'Connor, director, water division, EPA Region 8, to
15	Christopher Dorrington, director of Montana
16	Department of Environmental Quality. I think that's
17	really important.

Another thing that I'm really concerned about is 18 19 the Montana constitution that requires us to have a 20 clean environment. And I think sometimes we forget 21 that the State of Montana constitution requires that of all of us, that we ensure that the environment is 22 not degredated [sic] by the implementation of some 23 24 of these standards that are not actually in the best 25 interest of Montana or users.

1	One thing I think I noticed too with the DEQ
2	documents was that the downstream users were not
3	mentioned in in the beneficial use. And I know
4	that the State of Missouri has already had some
5	issues with the State of Montana over some of the
б	EPA's giving some variances on standards. So this
7	is something to think about. There are downstream
8	users, other states that are going to use our water,
9	and they are expecting us to do the best we can to
10	make sure that we're not degredating the water.

Another use that -- that you haven't talked 11 about is drinking water supplies. I understand 12 13 recreation and fishing. Fishing brings in a billion dollars a year, and so does -- and recreation is 14 15 very important. But drinking water supplies are very important too. Something I think that we 16 should be taking a look at too is what's happening 17 18 with our lakes and streams already.

And now I -- I have my documents which I have supported, sent in to the state on the DEQ and why I don't suppose -- support this document has to do with the requirements of the fishing. The State of Montana supports fishing consumption guide. I don't know if anybody took a look at that, but if you take a look at that, you're going to see how badly our

1	streams and our lakes and our waters are already
2	contaminated. And when the state fish and wildlife
3	puts out of huge list of fish that you can't eat
4	anymore and tells you that you eat the small fish
5	because, you know, those are don't have as much
б	contamination, I think it's a shame. I think it's a
7	shame that we already have degredated our water.
8	And when we have a chance to say, Okay, let's make
9	sure we reduce these nutrient standards that are
10	numeric no, we want narrative because we can
11	loosen the quality of our water quality.
12	This is so poor for Montana. We have to protect
13	our lakes and waters and streams. And I would also
14	like to say I really as you can see, I'm very
15	emotional about water because I've been a water
16	quality analyst. I know we can't go backwards, but,
17	you know, we've got find out where the polluters
18	are, and we have got to stop the polluters at their
19	source. It's not the water treatment plants that
20	should be carrying the burden of the upstream
21	polluters who are not meeting their permit. And the
22	State of Montana has got to start enforcing those
23	permits. And I know there's been a lot of variances
24	given and there's been some problems with so many
25	people being grandfathered in, but it's time. And

1	we don't want climate change is here. We're not
2	going to have enough water in the future here. We
3	have so many other things that are impacting the
4	sources of water, the amount of water, and the
5	quality of water. We have got to get ahold on this.
6	And I thank the DEQ and Lindsey for their hard
7	work on this. There's so many documents, so much
8	information, and it's really hard to get a handle on
9	this. But I'm just a regular citizen who's very
10	concerned. Thank you for the chance to provide my
11	comments.
12	HEARING OFFICER MOSER: Thank you,
13	Ms. Harlow.
14	Additional people online that wish to oppose the
15	rulemaking?
16	MS. JOHNSON: I'm promoting Shannon Holmes.
17	If you could state and spell your name for our
18	court reporter and speak clearly.
19	MS. HOLMES: Yes. Good morning. This is
20	Shannon Holmes. S-h-a-n-n-o-n, H-o-l-m-e-s. I am
21	the public works director for the City of
22	Livingston. I represent the less than 1 MGD point
23	source dischargers in the Nutrient Work Group, and
24	I'm also on the governor's water pollution control
25	advisory council. Thank you for allowing me to

1 speak this morning.

First off, I'd like to go on record that I agree 2 with the testimonies of other point source 3 dischargers from municipalities and the Montana 4 Mining Association. Livingston is very passionate 5 about water quality, especially with Yellowstone 6 7 River that runs through our beautiful community. We invested \$19 million in our water reclamation 8 facility back in 2017. This resulted in some of the 9 highest sewer rates in the state of Montana. 10 Α resident of our community pays about \$65,000 -- \$65, 11 excuse me, to treat 5,000 gallons of wastewater per 12 13 month.

We in Livingston were excited about the adaptive 14 15 management plan and the ability to collaborate with upstream stakeholders. But this current rule 16 package, there's essentially no incentive for 17 18 non-point source polluters to cooperate with 19 dischargers or financially contribute to nutrient 20 reduction projects. I'm not sure how we can use 21 city rate revenue for our sewer fund to pay for nutrient reduction projects that would be 22 23 significantly less expensive and less energy 24 consumption than expensive modifications to our 25 facility, but we were certainly excited to explore

1 that opportunity.

2	I respectfully request you pause this package.
3	SB 358 directs Montana Department of Environmental
4	Quality to develop a narrative approach to nutrient
5	management. The current approach is numeric rather
б	than narrative. SB 358 directs Montana DEQ to
7	develop an adaptive management plan; however, the
8	package in its current form does not provide a
9	viable pathway for using a local watershed's driven
10	adaptive management plan. And with pausing this, we
11	very much look forward to continuing to work with
12	Montana Department of Environmental Quality to
13	develop a package that supports local watershed
14	management and commonsense nutrient control to
15	protect our watershed.
16	Thank you for the opportunity to testify this
17	morning.
18	HEARING OFFICER MOSER: Thank you,
19	Mr. Holmes.
20	Any additional folks online wish to testify in
21	opposition?
22	MS. JOHNSON: I'm promoting Scott.
23	If you could state and spell your name for our
24	court reporter and speak clearly.
25	MR. BUECKER: This is Scott Buecker with

1AE2S. I was representing engineering consulting2companies on the Nutrient Work Group, and I'd like3to reiterate what Mr. Holmes just said and4specifically add that I believe my biggest5disappointment with the framework is the fact that6it puts the entirety of financial responsibility for7adaptive management on the dischargers. There's8absolutely no incentive for non-point sources to9financially contribute to that program; therefore,10it's going to be extremely hard for a municipality11to justify spending money on infrastructure that is12not on their property.13Thank you.14HEARING OFFICER MOSER: Thank you. Thank15you, Mr. Buecker.16MS. JOHNSON: If there's anyone else online17who wishes to provide comment, could you please18raise your hand?
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18 raise your hand?
19 HEARING OFFICER MOSER: And this would be
20 in opposition to the rule.
21 MS. JOHNSON: I'm not seeing any more
22 hands.
23 HEARING OFFICER MOSER: Okay.
24 Then if there's no one else in the room that
25 wishes to testify in opposition, then I would ask

those present here in the room to provide testimony 1 if you do not want to take a position. 2 Anyone else here that wishes to testify? 3 Again, please state your name and any 4 affiliation. 5 MS. WATSON: Hi. My name is Vicki Watson, 6 7 and I'm speaking for myself as a citizen. I have worked for decades on documenting the relationship 8 of nutrients to nuisance algae levels in Montana 9 streams and lakes. But I'm speaking for information 10 today because I support many aspects of the rules, 11 but I have some concerns about other aspects of the 12 So I've -- I would find it hard to be either 13 rules. 14 completely pro or completely con. I'm a mixed bag 15 here. I want to thank DEQ and the nutrient working 16 group for their hard work on this challenging 17 18 subject and for the opportunity to comment. I would 19 like to say -- make a few sort of general comments 20 and then get into some more specific comments on the 21 rules. 22 I would to say why numeric standards, or at 23 least numeric guidance for narrative standards, is 24 essential. Numeric standards were adopted after

25 extensive scientific research conducted here in

1	Montana for two main reasons. The first is to
2	prevent degradation. Without numeric guidance for
3	the causal variables of nitrogen and phosphorous, we
4	must wait for those response variables algal
5	blooms, low DO, altered aquatic populations to
6	become a problem. We have already allowed
7	degradation to occur, and now we must try to turn
8	back the clock.

9 Number two, numeric targets give wastewater engineers a target to design facilities to aim for. 10 We were asked by many wastewater engineers to -- you 11 know, we need a target to design for. We -- you 12 can't come and say, Well, that last reduction wasn't 13 14 enough, turn it down some more. No, that's not 15 enough, turn it down some more. We've got to have a target, so we design for that so that we can avoid 16 those costly redesign efforts. 17

18 The next point I'd like to make is that there is 19 a very ancient technology that can meet these 20 numeric standards. It's about 8,000 years old, and 21 it's called irrigation or land application. Crops can take up nutrients from treated effluence. 22 And 23 we have a shortage of water in this state, so here 24 we have some nutrient-rich water we can use for 25 irrigation. Admittedly, land is becoming more and

more costly in Montana, so this old technology, 1 while effective, is also becoming more costly. But 2 we should still keep it in mind as a possibility. 3 Third point I want to make, numeric nutrient 4 standards applied in the Clark Fork River produced 5 very dramatic results -- huge, huge reductions in 6 7 loads, even as the population surge was growing, and big responses in the river itself in terms of those 8 response variables improving. Missoula citizens 9 agreed to take on the cost of better treatment to 10 improve and protect the river, but also to lower 11 river reservoirs and Lake Pend Oreille in Idaho. 12 Reservoirs and lakes are even more sensitive to 13 14 nutrient loads than our streams and rivers, and 15 recognizing those distant downstream impact is essential. Missoula improved its wastewater 16 treatment, expanded sewer service to many more 17 18 entities, began to use land application, et cetera, 19 et cetera, and achieved these great results. 20 So now back to those proposed narrative

21 standards being discussed today. I'm glad to see 22 that the proposed narrative standards are still 23 intended to be guided by science conducted by DEQ 24 over many, many years, and using that science to 25 characterize the nutrient levels and response

variables in Montana least-impacted reference 1 2 streams. These are our best guides for avoiding degradation of our streams and restoring those that 3 have been degraded. But I am concerned that Part 1 4 of the proposed rules has so many exceptions for 5 atypical water bodies, streams, creeks, dam-impacted 6 7 streams, and so many site-specific, case-by-case definitions of full use or required minimum data 8 9 collections, et cetera. This is a very complex technical process that will be hard for ordinary 10 citizens to understand and feel assured that their 11 local streams and the systems connected to them are 12 13 being protected. It also represents a challenging increased workload for DEQ and for dischargers, and 14 15 this will delay action on all but the highest priority streams. The non-degradation section, 16 which is Section 6.0, Part I, is of particular 17 18 concern. It seems to say that changes in parameters 19 that have only narrative standards are assumed to be 20 nonsignificant. There's a vague mention of using 21 models to evaluate this, but once again, without numeric targets for nutrients, it will be very 22 difficult to prevent degradation. Instead, we'll by 23 24 trying to correct it as we recognize that 25 degradation has happened. I was also wondering how

1	the data reset section, Section 3.3, could affect
2	the determination of degrading conditions.
3	Now, on to Part II, the adaptive management
4	section thoughtfully recognizes the need to take a
5	watershed approach and to consider additive and
6	cumulative effects of many sources, and that the
7	response of distant downstream water bodies may be
8	different from those near the sources, so the
9	limiting factors may be different there. However,
10	the level of monitoring, analysis, and modeling
11	involved for so many site-specific watershed-level
12	plans will surely strain DEQ's resources.
13	Sections 8.0 and 8.1 discuss the integration of AMPs
14	and TMDLs and the revising of TMDLs. I'm aware of
15	quite a few TMDLs that are 10 to 20 years old. DEQ
16	has not had the staff resources to update these in a
17	timely fashion, and there are a lot of changes in 10
18	to 20 years. A lot of population increases and new
19	technologies and so on. Adding the AMP work to
20	DEQ's plate requires more staff resources to update
21	those old TMDLs and build those new AMPs.
22	Then I have few sort of minor technical points,
23	which I'll just rely on the written version that I'm
24	going to hand you to communicate those. And I want
25	to finish up with just a personal story that I think

1	says something about why we need policy and process
2	that drives timely action and trying to avoid more
3	and more delays of that action. I grew up on a
4	small family farm with a creek running through the
5	farm. And a small town upstream discharged its
6	sewage into that creek, which became unusable as the
7	town grew. We rural folks called on the urban folks
8	to treat their wastewater, but they said it's just
9	too costly, we don't have the money to do it. Until
10	the 1972 Clean Water Act required treatment, and
11	then they somehow found the resources and got it
12	done. Gradually the creek healed, but now it's
13	suffering again, due again to population growth and
14	a weakening resolve to provide adequate treatment.
15	Montana is suffering similar growing pains, and
16	
	we need to resolve to take the action needed to
17	we need to resolve to take the action needed to protect and restore our streams from all forms of
17 18	
	protect and restore our streams from all forms of
18	protect and restore our streams from all forms of pollution, including nutrient pollution, using the
18 19	protect and restore our streams from all forms of pollution, including nutrient pollution, using the best available science and a process that's

23 improved their discharge and their willingness to 24 continue to work on this tough problem. With 25 population growth, our streams are having to work

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1	harder and harder, and they need our help.
2	So here is a typed-up version of that with a few
3	corrections where artificial impudence chose to
4	change the wording I was using.
5	MS. KRYWARUCHKA: I just got that.
б	HEARING OFFICER MOSER: Thank you,
7	Ms. Watson.
8	Is there anyone else here that wishes to provide
9	general comments?
10	Is there anyone online that wishes to provide
11	general comment?
12	MS. JOHNSON: If you would like to provide
13	general comments, please raise your hand.
14	I am not seeing any hands being raised.
15	HEARING OFFICER MOSER: Okay. Seeing no
16	hands raised, correct, online okay. All right.
17	Again, if there is any person who wishes to
18	submit written comments, please provide those by
19	5:00 p.m. today through the means I already
20	indicated, postmarked or emailed by today. If you
21	have written comments right here that you want to
22	give me, you can give these to me too right now.
23	And and so I guess with that being stated,
24	thank you very much for all your for your
25	attendance and for all your testimony here today.

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1	The hearing is now adjourned. Thank you.	
2	(Proceedings concluded at 11:49 a.m.)	
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1 CERTIFICATE 2 3 STATE OF MONTANA 4) SS. COUNTY OF LEWIS AND CLARK 5) 6 7 I, HOLLY FOX, Freelance Court Reporter and a 8 Notary Public for the State of Montana, do hereby 9 certify that I did report the foregoing proceedings 10 to the best of my ability. IN WITNESS WHEREOF, I have set my hand and 11 12 seal on this 2nd day of July, 2024. 13 14 15 16 17 18 19 Holly aro, 20 HOLLY E FOX 21 NOTARY PUBLIC for the State of Montana Residing at Helena, Montana 22 My Commission Expires July 3, 2025 23 24 25

Transcript of Public Hearing June 10, 2024

Kules Hearinag	- F		1	Julie 10, 2024
	25:10;76:19	adds (2)	57:13	33:8;45:21
	achieving (2)	16:2;20:10	again (13)	Amanda (3)
\$	– 17:16;22:3			
		adequate (2)	10:16;22:22;28:6;	23:7;29:4;36:14
\$100 (2)	acknowledged (2)	53:4;79:14	39:7;41:1;43:22;	amend (2)
56:17;57:8	16:6;22:7	adequately (1)	55:18;57:2;74:4;	6:22,23
\$126 (1)	acknowledging (1)	20:24	77:21;79:13,13;	amending (1)
43:14	67:9	adjourned (1)	80:17	14:24
\$19 (1)	across (1)	81:1	against (1)	amendment (5)
71:8	59:4	Administration (3)	33:17	3:13;6:14;8:21;
\$2.5 (1)	Act (8)	5:18,20,21	agencies (4)	11:21;18:18
43:13	17:12,13;22:19;	Administrative (11)	4:15,16;7:6;65:25	amendments (3)
\$20 (1)	45:21;66:4,21;	3:23;4:3,4,6,8,10,	agency (5)	8:22,23;11:14
44:3	67:13;79:10	13,16;8:3;9:4;45:21	6:13,15,21,23;7:13	amount (4)
\$400 (3)	acted (1)	administrator (1)	agency's (2)	12:3;45:9;47:12;
23:20;29:7;42:20	67:9	12:19	7:8,9	70:4
\$52 (1)	acting (1)	Admittedly (1)	aging (1)	amounts (1)
49:16	62:19	75:25	51:13	43:19
\$65 (1)	action (6)	adopt (5)	ago (2)	AMP (5)
71:11	25:23;58:12;	6:21,23;14:2,21;	35:3;42:16	44:21;45:4;51:25;
	77:15;79:2,3,16	58:3	agree (5)	61:19;78:19
\$65,000 (1)	actions (2)	adopted (8)	30:23;50:9;51:13;	AMPs (4)
71:11	24:9;60:21	8:7;13:11,17,19;	65:18;71:2	44:25,25;78:13,21
\$75 (1)	actively (1)	16:12;37:9;58:13;	agreed (1)	analysis (9)
49:19	58:5	74:24	76:10	17:22;34:2;38:25;
\$82 (1)	actual (3)	adoption (8)	Agriculture (1)	39:3,8;49:13;51:24;
29:9	15:17;27:14;49:20	3:12,18;6:14;8:13,	4:19	62:6;78:10
\$92.4 (1)				2
43:11	actually (12)	13;9:9;11:17;47:18	ahead (2)	analyst (1)
	- 25:22;34:3,5;	adoptive (1)	28:14;33:11	69:16
[39:14;40:14;53:8;	40:11	ahold (1)	ancient (1)
	- 58:15,16,24;59:15;	adopts (1)	70:5	75:19
[sic] (1)	63:1;67:24	13:7	aim (2)	anthropogenic (1)
67:23	adaptive (31)	advance (2)	17:8;75:10	21:3
	- 3:21;11:20;14:5;	26:12;66:23	Air (1)	anticipate (1)
Α	15:25;16:17;17:2;	advising (1)	54:21	26:14
	21:22;24:3,3,8,14;	7:5	Alcohol (1)	anymore (1)
ability (4)	31:16,19;34:12;	advisory (1)	4:24	69:4
13:4;17:9;33:23;	35:16;38:13;39:18,	70:25	algae (3)	apart (1)
71:15	25;40:5;41:16;42:3,	advocate (1)	21:4;31:11;74:9	62:20
able (6)	22;44:11,15;45:23;	32:25	algal (1)	Appeal (1)
34:4;36:3,7;48:6;	61:17;71:14;72:7,	AE2S (1)	75:4	5:16
60:6;64:21	10;73:7;78:3	73:1	align (1)	appear (1)
above (1)	add (3)	Affairs (3)	21:7	6:25
51:9	52:22,25;73:4	4:18;5:19,22	alignment (1)	appearing (4)
Absaloka (1)	added (3)	affect (1)	45:1	10:12;11:1,7;12:6
19:15	26:20,22;43:15	78:1	allow (5)	appears (1)
	adding (3)	affected (1)	40:12,13,16;	12:2
absent (1)	36:10:51:13:78:19	14:11	45:23;46:1	applicability (1)
62:6	addition (2)	affecting (1)	allowed (1)	26:24
absolutely (2)	30:24;66:13	59:3	75:6	applicable (2)
66:12;73:8	additional (11)	affiliation (6)	allowing (2)	13:12;15:3
access (1)	24:16;26:20;30:6;	10:23;11:3;12:13;	16:20;70:25	application (3)
33:16	31:7;45:1,19;50:2,	19:3;65:11;74:5	almost (1)	12:7;75:21;76:18
accomplish (2)				
26:1;50:15	12;60:12;70:14;	afford (4)	52:6	applied (3)
account (1)	72:20	16:3;35:25;44:4;	alone (3)	45:16;59:2;76:5
61:16	Additionally (3)	59:22	29:9,17;30:7	apply (2)
accurate (1)	20:19;21:14;30:11	affordability (1)	along (4) 24,17,25,6,20	50:5;60:4
15:21	additive (1)	27:16	34:17;35:6,20;	appreciate (5)
achievable (4)	78:5	affordable (5)	36:16	14:16;36:24;
41:7,8,10;45:6	address (5)	36:2,8;41:15;	altered (1)	53:20;54:20;64:15
achieve (7)	7:3;10:22;11:3;	52:21;53:4	75:5	appreciation (1)
16:4,18,23;25:13;	12:13;23:25	affordably (1)	alternative (2)	54:24
30:15;49:20;67:7	addressing (2)	17:9	17:1;48:6	approach (15)
achieved (2)	13:15;22:21	afternoon (1)	although (2)	14:7;15:6,20;

Rules Hearinag	п	1	1	June 10, 2024
18:24;24:9,10,11;	attempts (1)	4:23	17;59:7,8,9,11,16,16	bring (3)
	58:12		Billings (5)	
40:1,10,11,16;61:4;		base (1)		7:2;57:22;62:1
72:4,5;78:5	attend (1)	13:17	23:14;28:17;29:9,	bringing (1)
appropriate (4)	57:18	based (8)	17;30:7	31:2
14:10;16:21;	attendance (1)	9:8;21:2;24:6;	billion (1)	brings (2)
17:15;24:9	80:25	25:3;51:24;52:7;	68:13	59:6;68:13
approve (1)	attended (1)	64:16;66:6	bills (1)	brought (1)
66:13	32:13	baseline (1)	45:10	35:19
approved (2)	attending (1)	51:9	biological (2)	Bruce (1)
26:6;60:9	7:14	basically (1)	15:16;49:3	64:5
April (2)	attention (3)	56:18	biologically-oriented (1)	budget (1)
3:24;8:3	7:2;23:4;45:11	basis (4)	15:20	55:21
aquatic (8)	attorney (1)	51:21;62:5,9;67:4	biotic (2)	BUECKER (3)
13:5,14;15:12,18;	3:25	beautiful (1)	20:19,23	72:25,25;73:15
21:1;26:25;27:18;	atypical (1)	71:7	bit (3)	bug (1)
75:5	77:6	became (1)	34:10;42:13;54:7	31:12
area (2)	audio (4)	79:6	Bitterroot (1)	build (3)
7:24;8:1	58:20,22;59:10,13	become (1)	51:18	52:4,18;78:21
areas (2)	Auditor (1)	75:6	black (1)	building (2)
44:16;52:15	4:22	becoming (2)	56:4	49:2;52:15
arguments (3)	August (1)	75:25;76:2	blind (1)	burden (1)
9:12;10:21;11:2	20:16	began (2)	27:12	69:20
ARM (5)	authority (4)	16:9;76:18	blooms (1)	burdens (2)
			75:5	21:19;23:3
3:13,18;8:6;9:4,7	6:13;8:12,22; 66:19	beginning (3) 8:4;28:7;39:24		
artificial (1)			BMPs (1)	burn (1)
80:3	available (11)	behalf (6)	44:18	33:10
ascertain (1)	7:18;8:19;10:4,23;	23:16;28:8,9,17;	BNR (2)	businesses (1)
63:1	11:24;17:5;22:10;	57:14,18	49:3;50:11	16:8
aspects (2)	30:15;37:14;38:24;	believer (1)	Board (9)	Butch (4)
74:11,12	79:19	54:17	5:1,2,2,3,17,21;	63:14,18,20;64:5
assessment (2)	Avenue (2)	believes (4)	7:16;29:1;31:3	buttons (1)
15:21;38:6	7:20;9:13	14:18;62:15,21,23	bodies (2)	64:4
assessments (1)	avoid (3)	beneficial (12)	77:6;78:7	buying (1)
55:9	50:6;75:16;79:2	13:5,9;17:18;20:8;	body (2)	50:5
associate (1)	avoiding (1)	27:2,15,25;38:13;	14:9;20:7	
57:22	77:2	40:15,19;41:17;68:3	bond (1)	С
associated (6)	aware (1)	benefit (4)	44:4	
8:24;14:12;26:4;	78:14	17:18;40:18;	bonding (1)	calculated (1)
36:17;40:7;52:22	away (1)	44:23;52:6	44:3	45:15
Association (11)	25:23	benefits (1)	both (8)	called (6)
46:12;47:22,22,		44:10	3:8;22:10;26:11,	3:6;12:9;24:11;
23;57:15,19;58:5;	В	best (8)	11;38:5;46:25;47:8;	26:1;75:21;79:7
59:15,18;61:23;71:5		21:24;25:4;30:15;	62:18	calls (2)
assumed (2)	back (18)	49:22;67:24;68:9;	bottom (2)	26:2;55:25
39:4;77:19	10:24;19:1;29:1;	77:2;79:19	56:9;57:7	came (2)
assumption (1)	31:3;33:13;36:12,13,	better (5)	bottom-dwelling (1)	35:2;59:9
62:10	21;37:8;54:18;	44:7;50:4;54:23;	15:12	can (35)
		44:7;50:4;54:25; 55:10;76:10		
assumptions (1) 62:4	56:13,23;58:15;		Box (3) = 7.4 21.0.12	8:1;15:20;16:18;
	59:6;62:7;71:9;75:8;	Beverage (1)	7:4,21;9:13	18:18,25;25:1,10,13;
assurance (1)	76:20	4:24	Bozeman (12)	30:15;35:11;36:4;
31:25	backs (1)	beyond (2)	23:14;42:1,2,2,23;	37:19;39:4,24;41:2;
assurances (2)			43:8,10;44:4,13,25;	42:5;44:7,19;50:22;
	43:24	30:1;50:13		
45:5;50:23	backwards (3)	big (4)	54:18;59:22	53:8;56:8,16;63:1;
45:5;50:23 assured (1)	backwards (3) 39:13;65:23;69:16	big (4) 37:2,3;54:17;76:8	54:18;59:22 Bozeman's (2)	53:8;56:8,16;63:1; 65:1;66:15,16;68:9;
45:5;50:23 assured (1) 77:11	backwards (3) 39:13;65:23;69:16 badly (1)	big (4) 37:2,3;54:17;76:8 bigger (1)	54:18;59:22 Bozeman's (2) 42:13;43:24	53:8;56:8,16;63:1; 65:1;66:15,16;68:9; 69:10,14;71:20;
45:5;50:23 assured (1)	backwards (3) 39:13;65:23;69:16	big (4) 37:2,3;54:17;76:8 bigger (1) 39:15	54:18;59:22 Bozeman's (2) 42:13;43:24 brakes (1)	53:8;56:8,16;63:1; 65:1;66:15,16;68:9;
45:5;50:23 assured (1) 77:11	backwards (3) 39:13;65:23;69:16 badly (1)	big (4) 37:2,3;54:17;76:8 bigger (1)	54:18;59:22 Bozeman's (2) 42:13;43:24	53:8;56:8,16;63:1; 65:1;66:15,16;68:9; 69:10,14;71:20;
45:5;50:23 assured (1) 77:11 attached (1)	backwards (3) 39:13;65:23;69:16 badly (1) 68:25	big (4) 37:2,3;54:17;76:8 bigger (1) 39:15	54:18;59:22 Bozeman's (2) 42:13;43:24 brakes (1)	53:8;56:8,16;63:1; 65:1;66:15,16;68:9; 69:10,14;71:20; 75:16,19,22,24;
45:5;50:23 assured (1) 77:11 attached (1) 4:16	backwards (3) 39:13;65:23;69:16 badly (1) 68:25 bag (1)	big (4) 37:2,3;54:17;76:8 bigger (1) 39:15 biggest (1)	54:18;59:22 Bozeman's (2) 42:13;43:24 brakes (1) 37:7	53:8;56:8,16;63:1; 65:1;66:15,16;68:9; 69:10,14;71:20; 75:16,19,22,24; 80:22
45:5;50:23 assured (1) 77:11 attached (1) 4:16 attain (2) 44:8,20	backwards (3) 39:13;65:23;69:16 badly (1) 68:25 bag (1) 74:14	big (4) 37:2,3;54:17;76:8 bigger (1) 39:15 biggest (1) 73:4 bill (19)	54:18;59:22 Bozeman's (2) 42:13;43:24 brakes (1) 37:7 branch (1) 4:15	53:8;56:8,16;63:1; 65:1;66:15,16;68:9; 69:10,14;71:20; 75:16,19,22,24; 80:22 Cannabis (1) 4:25
45:5;50:23 assured (1) 77:11 attached (1) 4:16 attain (2)	backwards (3) 39:13;65:23;69:16 badly (1) 68:25 bag (1) 74:14 balancing (1) 14:8	big (4) 37:2,3;54:17;76:8 bigger (1) 39:15 biggest (1) 73:4 bill (19) 6:20;9:5;13:25;	54:18;59:22 Bozeman's (2) 42:13;43:24 brakes (1) 37:7 branch (1) 4:15 brief (3)	53:8;56:8,16;63:1; 65:1;66:15,16;68:9; 69:10,14;71:20; 75:16,19,22,24; 80:22 Cannabis (1) 4:25 canyon (2)
45:5;50:23 assured (1) 77:11 attached (1) 4:16 attain (2) 44:8,20 attainable (1) 49:15	backwards (3) 39:13;65:23;69:16 badly (1) 68:25 bag (1) 74:14 balancing (1) 14:8 ballpark (1)	big (4) 37:2,3;54:17;76:8 bigger (1) 39:15 biggest (1) 73:4 bill (19) 6:20;9:5;13:25; 14:20;17:11;19:24;	54:18;59:22 Bozeman's (2) 42:13;43:24 brakes (1) 37:7 branch (1) 4:15 brief (3) 19:10;58:20;59:12	53:8;56:8,16;63:1; 65:1;66:15,16;68:9; 69:10,14;71:20; 75:16,19,22,24; 80:22 Cannabis (1) 4:25 canyon (2) 32:7;62:14
45:5;50:23 assured (1) 77:11 attached (1) 4:16 attain (2) 44:8,20 attainable (1)	backwards (3) 39:13;65:23;69:16 badly (1) 68:25 bag (1) 74:14 balancing (1) 14:8	big (4) 37:2,3;54:17;76:8 bigger (1) 39:15 biggest (1) 73:4 bill (19) 6:20;9:5;13:25;	54:18;59:22 Bozeman's (2) 42:13;43:24 brakes (1) 37:7 branch (1) 4:15 brief (3)	53:8;56:8,16;63:1; 65:1;66:15,16;68:9; 69:10,14;71:20; 75:16,19,22,24; 80:22 Cannabis (1) 4:25 canyon (2)

Transcript of Public Hearing June 10, 2024

Kules Hearinag		I	I	Julie 10, 2024
capacity (1)	11:4,6	66:3,12;67:12,20;	36:20;37:18;45:20;	concentrations (1)
44:3	chemical (4)	79:10	70:11;74:19,20;80:9,	15:18
capita (1)	23:23;25:14;26:4;	cleaner (2)	13,18,21	concept (1)
51:21	43:19	56:15;57:7	Commerce (2)	42:3
capital (2)	chemicals (4)	clear (7)	4:20;48:1	concern (6)
23:20;43:18	25:18;30:6;36:15;	21:14;22:12;	commission (2)	6:8;21:21;34:17;
carbon (5)	55:13	26:13,15;49:6;	55:20;57:10	48:2;66:1;77:18
25:17;36:18;	Chester (1)	59:19;60:22	Commissioner (2)	concerned (8)
43:20;52:22,24	59:24	clearly (5)	4:22;5:23	9:11;33:8;59:21;
	Children (1)	45:15;63:16;	commitment (3)	
career (1) 54:13	5:6			65:20;66:15;67:18; 70:10;77:4
	chlorophyll (3)	65:11;70:18;72:24	16:13;28:23;29:3	,
carefully (1)		Click (1) 19:6	committed (2)	concerning (1)
26:3	27:20;34:11,14		17:14,17	12:21
carrying (1) 69:20	choice (2)	climate (2)	Committee (12)	concerns (9) 19:19;20:21;
	48:4;53:16	25:23;70:1	4:7,9,18;5:1,7,9,	
case-by-case (1)	chose (1)	clock (1)	13,15,19,25;6:7;64:8	33:13,22;36:15;
77:7	80:3	75:8	Committees (5)	46:25;47:17;56:1;
cases (1)	Christoff (1)	close (1)	4:9,11,12;6:12,24	74:12
25:11	54:1	47:10	commonsense (1)	concluded (1)
casting(1)	Christopher (1)	closed (1)	72:14	81:2
52:10	67:15	56:24	communicate (1)	concludes (1)
categories (1)	Circuit (1)	closes (1)	78:24	18:1
15:4	22:13	59:11	communities (13)	conclusion (1)
cattle (1)	Circular (12)	coal (4)	16:8;36:2;38:5,21,	22:23
50:20	3:19;8:14;11:24;	25:19;30:9;33:8,	22,23;39:13;48:20;	concur (1)
causal (2)	13:20;14:21;15:1,	10	50:3;59:3,21,24;	54:6
15:8;75:3	24;20:2;24:19;	coalition (5)	66:24	condition (1)
cause (2)	31:20;35:10;45:8	46:12,22;47:21,	community (6)	41:10
31:8;35:22	cities (16)	25;58:6	26:3;39:9,19;40:1;	conditions (6)
caused (1)	23:13,19;28:10,	COLEMAN (6)	71:7,11	16:5;20:16;27:21;
35:21	20;29:6;30:22;	32:19,20;37:16,17,	community-based (1)	49:15;66:7;78:2
cease (1)	39:15;42:19;47:24;	21;47:11	44:22	conducted (2)
27:18	52:12;53:3;60:15,	C-o-l-e-m-a-n (1)	companies (1)	74:25;76:23
centers (1)	24;64:19;65:24;66:8	32:20	73:2	conflict (1)
13:13	citizen (3)	collaborate (1)	complete (1)	59:20
certainly (2)	65:16;70:9;74:7	71:15	8:17	connect (1)
62:18;71:25	citizens (7)	colleagues (1)	completed (1)	36:3
cetera (4)	48:22;55:4,17;	42:19	51:1	connected (2)
55:9;76:18,19;	56:16;76:9;77:11;	collection (1)	completely (2)	51:17;77:12
77:9	79:20	21:9	74:14,14	connecting (2)
challenge (1)	citizens' (2)	collections (1)	complex (3)	44:16;51:12
36:11	49:22;53:15	77:9	47:6;57:24;77:9	connection (2)
challenging (2)	City (26)	collective (1)	complexity (1)	36:5;53:1
74:17;77:13	23:13,14,14,14,15;	61:5	25:25	consensus (1)
Chamber (1)	28:17;32:21,24;	Collectively (1)	compliance (14)	32:5
47:25	33:15;35:20;36:3;	29:6	16:3,4,18;17:5,6,	consented (1)
chance (2)	42:1,2;43:8,10;	combination (3)	16;20:6,12;21:10,21;	10:3
69:8;70:10	48:17,23;49:2;	25:2;30:17;47:8	24:23;26:12;27:4,16	consequences (1)
change (5)	50:15;51:5,24;52:7;	combine (1)	complicated (1)	52:10
50:1;54:13;66:13;	54:3,15;70:21;71:21	65:1	43:21	Conservation (2)
70:1;80:4	city's (1)	combines (1)	complicates (1)	6:6,11
changed (1)	51:22	15:8	20:5	consider (6)
35:5	clarification (2)	comfortable (1)	comply (7)	26:3;27:14;31:2;
changes (6)	42:9;53:13	41:2	17:10,12;25:4,21,	41:18;48:3;78:5
15:13,14;17:23;	clarity (8)	coming (2)	24;60:6;66:25	consideration (2)
28:2;77:18;78:17	31:4,7,17;41:1,3;	55:14;56:4	complying (2)	9:17;16:16
changing (2)	42:10;46:1;47:21	comment (9)	40:3,9	considered (4)
17:6;33:9	Clark (5)	33:24;43:7;53:20;	comprised (1)	10:3;12:25;22:5;
characterize (1)	23:16;49:1,6;51:8;	57:16;58:8,10;	58:6	25:16
76:25	76:5	73:17;74:18;80:11	con (1)	considering (4)
chart (2)	Clean (10)	comments (17)	74:14	21:9;22:16;47:19;
35:12,14	17:13;22:19;	6:25;9:17;10:17;	concentration (1)	56:21
chat (2)	55:17;56:8;61:1;	11:12;19:10,11,12;	25:2	considers (1)

Transcript of Public Hearing June 10, 2024

Rules Hearinag	P	1		Julie 10, 2024
66.11	20.19	C	1	12 20 20 2 21 12
66:11	29:18	Crops (1)	degradation (5)	13:20;20:2;21:12
consistent (4)	cooperate (1)	75:21	75:2,7;77:3,23,25	DEQ-12-A (3)
6:19;15:6,22;	71:18	cumulative (1)	degraded (1)	66:24;67:5,11
22:18	coordination (1)	78:6	77:4	DEQ-15 (11)
constituents (1)	26:7	current (7)	degrading (1)	3:19;8:14;15:1,24;
26:12	copies (2)	22:2;44:2;45:22;	78:2	27:14;39:20;40:24;
constitutes (1)	8:18;11:23	60:19;71:16;72:5,8	degredated (2)	41:3,14;65:18;66:23
31:7	copy (3)	Currently (4)	67:23;69:7	DEQMAR17-434@mtgov (1)
Constitution (3)	8:17;9:25;17:21	31:18,20;39:21;	degredating (1)	9:15
33:18;67:19,21	Corrections (2)	40:23	68:10	DEQ's (6)
consultants (1)	5:10;80:3	cycle (1)	degree (5)	3:9;49:13;51:18;
53:17	cosigners (1)	26:2	23:9;27:7,8,10,14	61:13;78:12,20
consultation (3)	61:23		delay (2)	describe (1)
14:4,14;45:2	cost (24)	D	21:6;77:15	24:20
consulting (1)	25:25;26:2;32:5,8,		delays (1)	describes (1)
73:1	9;38:7,10,11;39:8;	daily (1)	79:3	15:24
consumption (4)	43:2,10,11,18;49:16,	21:7	delete (1)	design (5)
23:24;26:4;68:23;	18,19;52:25;62:16,	damaging (1)	14:1	23:10;38:7;75:10,
71:24	16,22,23;64:18;65:2;	25:15	deletion (1)	12,16
contain (1)	76:10	dam-impacted (1)	66:13	designate (1)
45:12	costing (1)	77:6	deliberative (2)	13:9
contains (1)	29:25	dangerous (1)	33:16,22	designed (1)
10:6	costly (6)	25:18	delta (1)	25:4
contaminated (1)	17:1;53:11;75:17;	Darcy (1)	20:15	despite (2)
69:2	76:1,2;79:9	67:13	demonstrate (1)	20:8;52:1
contamination (1)	costs (7)	darn (1)	61:13	destined (1)
69:6	32:2;35:24;36:5;	64:21	denied (2)	53:11
contend (1)	40:7;43:12,13;44:9	data (9)	22:11;33:16	detail (2)
58:24	Council (4)	9:11;10:20;11:2;	dense (1)	38:18;45:25
contended (1)	4:10,12;6:3;70:25	21:9;27:11;51:18;	44:16	detailed (1)
60:2	counterparts (1)	60:19;77:8;78:1	density (1)	19:13
content (1)	64:13	date (3)	36:4	detailing (1)
34:7	couple (4)	9:18;17:7;29:9	Department (54)	14:22
contingent (1)	54:15;61:24,25;	Dave (2)	4:1,19,19,20,21;	details (1)
22:9	63:21	23:16;57:17	5:7,10,10,13,16,19,	45:12
	course (1)			
continue (6)		day (1)	21;6:1,2,4,4,5,9,10,	determination (1)
23:22;32:12;51:8,	49:19	34:21	11;7:15,19,25;8:8;	78:2
11;53:17;79:24	Court (7)	days (1)	9:2,12,19,22,23;	determinations (1)
continued (1)	42:9;53:12,13;	35:4	10:9;11:10;12:16,	21:10
13:21	63:16;65:12;70:18;	deal (3)	19;13:7,14,25;14:13,	determine (2)
continuing (1)	72:24	37:3,3;64:22	18,20,21;16:6,9;	6:18;24:23
72:11	cover (1)	dealing (1)	17:14;22:24;38:24;	determined (1)
continuous (1)	27:5	36:9	47:13;48:5;58:23;	40:23
20:18	covers (1)	decade (2)	60:1;62:15,21;	determining (3)
contrary (2)	48:1	37:10;42:16	67:16;72:3,12	15:6;26:16;27:4
21:12;22:22	COVID (1)	decades (2)	Department's (6)	develop (6)
contrast (1)	55:6	35:3;74:8	7:22;10:2,5;16:13;	14:15;24:9;45:3;
56:9	create (3)	deciding (1)	17:21;18:1	72:4,7,13
contribute (5)	7:7;21:15;61:11	15:18	depriving (1)	Developed (3)
31:8;51:19;52:20;	credit (1)	decision (1)	50:6	15:10;23:19;24:8
71:19;73:9	51:15	55:1	deputy (2)	developing (1)
contributed (1)	crediting (1)	dedicated (1)	32:21;48:16	52:15
14:17	52:2	29:18	DEQ (33)	Development (7)
contributing (1)	creek (4)	deeming (1)	11:24;12:9;23:18;	4:23;21:20;22:25;
19:16	34:19;79:4,6,12	20:7	27:2;30:16,18;31:20,	24:2;35:6;52:12,25
contributions (1)	creeks (1)	deep (1)	21;32:9;35:10;37:6;	deviation (1)
61:15	77:6	54:24	45:2,7,8;49:4;50:22,	20:22
Control (5)	crisis (1)	defined (1)	24;51:3,9,14,22;	difference (1)
4:24,25;67:2;	52:21	54:23	61:9,12;62:12;	32:7
70:24;72:14	criteria (3)	definitely (2)	66:22;68:1,20;70:6;	different (5)
conventional (1)	13:10;31:12,14	54:6,19	72:6;74:16;76:23;	15:3,4;17:6;78:8,9
25:10	critical (2)	definitions (1)	77:14;78:15	differentiate (1)
	19:19;50:8	77:8	DEQ-12A (3)	21:3
conveyance (1)	17.17,30.0	//.0	DEQ-12A (3)	21.3

Kules Heat mag				Julie 10, 2024
differently (1)	24:15	32:3;72:9	electronic (1)	entities (3)
61:8	disincentivizes (1)	drives (2)	10:3	4:15;66:9;76:18
difficult (2)	52:14	24:5;79:2	eliminate (2)	entity (1)
53:3;77:23	dissolved (3)	due (4)	58:25;59:7	60:25
difficulties (1)	15:14,14;20:14	16:15;20:21;	else (9)	environment (4)
7:2	dissuading (1)	59:19;79:13	10:15;36:9;49:10;	17:19;32:15;
diligently (1)	36:6	during (2)	62:22;63:5;73:16,	67:20,22
14:13	distant (2)	6:20;39:4	24;74:3;80:8	Environmental (21)
direct (1)		0.20,39.4	email (4)	
	76:15;78:7	Ε		4:1,9,11;6:3,4,9;
59:20	District (2)	E	7:23;9:14;11:9;	7:16,20;9:12;12:20;
directed (2)	64:7,20		33:20	19:18;23:2;29:15;
19:24;61:8	diversity (1)	East (4)	emailed (1)	30:5,24;33:2;34:2;
directing (1)	26:21	7:20;9:13;42:6;	80:20	41:20;67:16;72:3,12
6:21	divestment (1)	54:18	emissions (4)	EPA (13)
direction (3)	26:2	eastern (3)	25:15,17;36:17;	22:12;24:25;53:6;
21:13;22:22;60:17	divide (1)	20:3,14;27:6	43:20	61:13;66:3,11,12,16;
directive (1)	64:18	eat (2)	emotional (1)	67:2,7,9,10,14
19:23	Division (6)	69:3,4	69:15	EPA's (3)
directly (3)	4:23,25,25;6:2;	Eck (1)	emphasis (2)	26:2;67:6;68:6
9:5;19:22;66:16	12:18;67:14	58:13	15:15,17	EQC (3)
director (10)	document (4)	Economic (23)	emphasize (1)	4:13;6:12,24
32:21;42:1;43:25;	41:15;43:8;49:14;	4:18,23;6:16;16:7,	16:13	equate (1)
48:16;54:2;57:17;	68:21	10,14;21:18;22:8,17,	Employees (1)	27:1
60:14;67:14,15;	documentation (1)	21;38:8,14,25;41:18;	5:20	equivalent (1)
70:21	46:24	47:1;49:12,13;	end (9)	30:10
directs (2)	documenting (1)	51:24;55:5;62:2,3,9;	27:17;29:25;	especially (3)
72:3,6	74:8	63:2	31:22;32:1;43:7;	33:25;34:25;71:6
dirtier (1)	documents (11)	economies (1)	45:18;53:12;55:16,	essence (1)
56:12	17:20;18:5;24:20;	39:12	16	43:14
disagree (2)	33:16,21,22;61:6;	economy (1)	Energy (5)	essential (2)
62:7,9	66:22;68:2,19;70:7	19:17	5:12;25:14;36:16;	74:24;76:16
disappointment (1)	dollars (15)	ecoregion (5)	43:19;71:23	essentially (1)
73:5	23:23;29:7;30:1;	20:3,14;24:7;	enforce (2)	71:17
disapproved (1)	43:11;49:21,24;50:2,	27:24;51:9	66:16,19	establish (2)
67:10	5;51:1;52:4;55:22,	ecoregions (2)	enforcement (1)	13:8;19:23
discharge (8)	23;60:5;61:2;68:14	25:7;27:5	66:5	established (1)
16:1;38:19;42:7,	done (5)	Ed (2)	enforcing (2)	20:22
24;45:3,13;50:10;	23:25;38:12;39:1;	32:20;47:11	65:19;69:22	estimated (1)
79:23	42:15;79:12	educate (1)	engage (1)	6:16
discharged (2)	door (2)	56:6	16:23	estimates (1)
29:11;79:5	7:18;54:18	Education (4)	engaged (1)	64:18
discharger (1)	Dorrington (1)	5:1,2,3,3	58:9	estimating (1)
24:14	67:15	effect (2)	ENGELS (2)	38:7
dischargers (19)	down (6)	39:5;49:1	28:15,16	et (4)
16:22;21:19;	37:5;41:9;55:14;	effective (4)	engineer (3)	55:9;76:18,19;
22:10,11;25:23;26:9,	61:3;75:14,15	21:23;41:16;67:3;	23:8;38:3;48:19	77:9
13;38:1,17;39:3;	downstream (4)	76:2	engineering (1)	Ethridge (1)
46:13;50:9;62:11,	68:2,7;76:15;78:7	effectively (3)	73:1	64:5
13;70:23;71:4,19;	draft (2)	21:20;29:24;45:24	engineers (4)	eutrophication-based (1)
73:7;77:14	45:10,22	effects (2)	29:13;32:8;75:10,	13:22
discharges (1)	drain (1)	55:6;78:6	11	evaluate (1)
51:7	61:3	effluence (1)	enormous (1)	77:21
discharging (1)	dramatic (1)	75:22	45:9	evaluation (1)
39:4	76:6	effluent (3)	enough (5)	4:14
discuss (1)	drawing (3)	22:1;24:22,24	38:18;64:4;70:2;	even (10)
78:13	29:1;31:3;47:10			21:17;24:16;25:4;
		effort (4)	75:14,15	
discussed (1) 76:21	drinking (8)	25:24;33:14;45:7;	ensure (3)	27:10;31:15;44:4;
	29:24;31:22;32:1;	47:12	16:14;44:25;67:22	51:3;60:6;76:7,13
discussion (2)	43:14;66:20,21;	efforts (4)	enter (4)	everybody (2)
33:25;34:11	68:12,15	33:1;36:24;61:3;	24:14;31:18,19;	49:10;53:21
discussions (1)	Drive (1)	75:17	39:24	everyone (2)
57:1	65:14	either (3)	entirety (1)	7:5;62:22
disincentives (1)	driven (2)	10:21;41:6;74:13	73:6	evidence (2)
		1	1	1

Transcript of Public Hearing June 10, 2024

	1			June 10, 2024
11.15.46.04	25.12.50.9	6 (2)		11.15
11:15;46:24	35:12;59:8	favor (2)	Fish (6)	11:15
exact (1)	explore (1)	18:11;59:16	6:5,10;13:5;69:2,	forms (2)
27:3	71:25	fax (3)	3,4	7:17;79:17
examine (2)	exponentially (1)	7:21;9:14;11:9	fisheries (1)	formulated (1)
11:25;37:14	35:7	feasibility (1)	50:7	24:21
examining (1)	expressed (1)	27:15	fishing (6)	forth (6)
16:9	26:10	feasible (1)	34:19;54:19;	8:10,20;9:1;31:2;
example (1)	expression (1)	24:24	68:13,13,22,23	45:15;46:25
16:8	28:1	feature (3)	five (5)	forward (9)
examples (1)	extended (3)	11:4,6;12:7	21:9;28:24,25;	30:21,23,25;
39:2	19:9;26:8,8	federal (8)	31:2;66:6	36:24;42:22;45:17,
exceed (1)	extensive (1)	17:5,13,24;22:19;	Fladland (1)	23;48:7;72:11
21:16	74:25	57:25;58:2;67:3,5	54:11	found (2)
exceedance (3)	extraordinary (1)	feel (4)	flexibility (1)	58:16;79:11
26:22,25;31:8	43:18	38:14;47:2;49:9;	16:4	
		77:11		four (2)
exceeded (1)	extremely (1)		flexible (1)	31:21;51:19
27:20	73:10	fees (1)	67:7	Fourthly (1)
exceeding (1)	Т	53:1	flies (1)	30:16
27:25	F	fellow (2)	51:17	fractional (1)
exceeds (1)		54:5;58:7	flowchart (2)	43:16
49:19	face (1)	felt (1)	24:12;39:22	framework (4)
except (1)	51:18	64:16	flows (1)	44:11;45:24;
39:20	facilities (12)	fencing (1)	50:7	60:18;73:5
exceptions (1)	23:11,12;25:5;	50:20	flushing (1)	fulfill (3)
77:5	29:8,14;38:6,7,19;	fertilizer (1)	61:2	14:19;17:10;36:7
excess (4)	46:5;59:3,5;75:10	35:8	focus (3)	full (3)
12:25;13:3,15;	facility (9)	few (8)	22:25;31:11;52:12	16:11;64:20;77:8
25:14	17:1;30:10;43:8,	46:19;49:7;55:5;	focused (2)	Function (3)
excessively (1)	12;49:14;51:12,21;	58:19;74:19;78:15,	25:1;29:16	4:6,8,11
47:6	71:9,25	22;80:2	focuses (1)	functions (1)
excited (2)	fact (2)	fewer (1)	44:13	4:14
71:14,25	24:15;73:5	38:23	focusing (1)	fund (1)
excuse (1)	factor (1)	fighting (1)	24:7	71:21
71:12	49:13	37:9	$f_{\alpha} = (0)$	e 1º (2)
	47.1.7	37.9	101KS (ð)	funding (3)
executive (3)			folks (8) 12:3:28:12:33:7:	funding (3) 26:7.11:40:4
executive (3) 4:15:57:17:60:14	factors (3)	Figure (5)	12:3;28:12;33:7;	26:7,11;40:4
4:15;57:17;60:14	factors (3) 14:9;36:8;78:9	Figure (5) 35:10;39:22;48:7;	12:3;28:12;33:7; 34:8;46:20;72:20;	26:7,11;40:4 Further (6)
4:15;57:17;60:14 exempt (1)	factors (3) 14:9;36:8;78:9 facts (1)	Figure (5) 35:10;39:22;48:7; 60:20;62:12	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7	26:7,11;40:4 Further (6) 27:25;46:8;48:13;
4:15;57:17;60:14 exempt (1) 52:13	factors (3) 14:9;36:8;78:9 facts (1) 62:4	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1)	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1)	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24
4:15;57:17;60:14 exempt (1) 52:13 exerted (1)	factors (3) 14:9;36:8;78:9 facts (1) 62:4 fail (1)	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1) 7:17	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1) 53:5	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24 Furthermore (1)
4:15;57:17;60:14 exempt (1) 52:13 exerted (1) 47:15	factors (3) 14:9;36:8;78:9 facts (1) 62:4 fail (1) 21:2	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1) 7:17 final (2)	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1) 53:5 following (2)	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24 Furthermore (1) 20:4
4:15;57:17;60:14 exempt (1) 52:13 exerted (1) 47:15 exist (2)	factors (3) 14:9;36:8;78:9 facts (1) 62:4 fail (1) 21:2 fails (2)	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1) 7:17 final (2) 43:15;48:3	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1) 53:5 following (2) 3:1;4:15	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24 Furthermore (1) 20:4 future (3)
4:15;57:17;60:14 exempt (1) 52:13 exerted (1) 47:15 exist (2) 27:18;41:3	factors (3) 14:9;36:8;78:9 facts (1) 62:4 fail (1) 21:2 fails (2) 27:14;66:15	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1) 7:17 final (2) 43:15;48:3 finally (4)	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1) 53:5 following (2) 3:1;4:15 follows (2)	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24 Furthermore (1) 20:4
4:15;57:17;60:14 exempt (1) 52:13 exerted (1) 47:15 exist (2) 27:18;41:3 existing (7)	factors (3) 14:9;36:8;78:9 facts (1) 62:4 fail (1) 21:2 fails (2) 27:14;66:15 fair (1)	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1) 7:17 final (2) 43:15;48:3 finally (4) 10:17;32:5,10;	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1) 53:5 following (2) 3:1;4:15 follows (2) 4:7;10:8	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24 Furthermore (1) 20:4 future (3) 8:1;58:1;70:2
4:15;57:17;60:14 exempt (1) 52:13 exerted (1) 47:15 exist (2) 27:18;41:3 existing (7) 7:3;14:24;21:7,19;	factors (3) 14:9;36:8;78:9 facts (1) 62:4 fail (1) 21:2 fails (2) 27:14;66:15 fair (1) 12:2	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1) 7:17 final (2) 43:15;48:3 finally (4) 10:17;32:5,10; 59:11	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1) 53:5 following (2) 3:1;4:15 follows (2) 4:7;10:8 footprint (3)	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24 Furthermore (1) 20:4 future (3)
4:15;57:17;60:14 exempt (1) 52:13 exerted (1) 47:15 exist (2) 27:18;41:3 existing (7) 7:3;14:24;21:7,19; 38:6;49:6;66:24	factors (3) 14:9;36:8;78:9 facts (1) 62:4 fail (1) 21:2 fails (2) 27:14;66:15 fair (1) 12:2 faith (1)	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1) 7:17 final (2) 43:15;48:3 finally (4) 10:17;32:5,10; 59:11 finance (1)	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1) 53:5 following (2) 3:1;4:15 follows (2) 4:7;10:8 footprint (3) 36:18;52:22,24	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24 Furthermore (1) 20:4 future (3) 8:1;58:1;70:2 G
4:15;57:17;60:14 exempt (1) 52:13 exerted (1) 47:15 exist (2) 27:18;41:3 existing (7) 7:3;14:24;21:7,19; 38:6;49:6;66:24 exists (1)	factors (3) 14:9;36:8;78:9 facts (1) 62:4 fail (1) 21:2 fails (2) 27:14;66:15 fair (1) 12:2 faith (1) 62:19	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1) 7:17 final (2) 43:15;48:3 finally (4) 10:17;32:5,10; 59:11 finance (1) 43:25	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1) 53:5 following (2) 3:1;4:15 follows (2) 4:7;10:8 footprint (3) 36:18;52:22,24 footprints (1)	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24 Furthermore (1) 20:4 future (3) 8:1;58:1;70:2 G Gallatin (2)
4:15;57:17;60:14 exempt (1) 52:13 exerted (1) 47:15 exist (2) 27:18;41:3 existing (7) 7:3;14:24;21:7,19; 38:6;49:6;66:24 exists (1) 30:12	factors (3) 14:9;36:8;78:9 facts (1) 62:4 fail (1) 21:2 fails (2) 27:14;66:15 fair (1) 12:2 faith (1) 62:19 fall (1)	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1) 7:17 final (2) 43:15;48:3 finally (4) 10:17;32:5,10; 59:11 finance (1) 43:25 Financial (3)	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1) 53:5 following (2) 3:1;4:15 follows (2) 4:7;10:8 footprint (3) 36:18;52:22,24 footprints (1) 43:20	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24 Furthermore (1) 20:4 future (3) 8:1;58:1;70:2 G Gallatin (2) 42:6;54:19
4:15;57:17;60:14 exempt (1) 52:13 exerted (1) 47:15 exist (2) 27:18;41:3 existing (7) 7:3;14:24;21:7,19; 38:6;49:6;66:24 exists (1) 30:12 expanded (2)	factors (3) 14:9;36:8;78:9 facts (1) 62:4 fail (1) 21:2 fails (2) 27:14;66:15 fair (1) 12:2 faith (1) 62:19 fall (1) 35:24	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1) 7:17 final (2) 43:15;48:3 finally (4) 10:17;32:5,10; 59:11 finance (1) 43:25 Financial (3) 4:24;51:23;73:6	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1) 53:5 following (2) 3:1;4:15 follows (2) 4:7;10:8 footprint (3) 36:18;52:22,24 footprints (1) 43:20 Force (1)	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24 Furthermore (1) 20:4 future (3) 8:1;58:1;70:2 G Gallatin (2) 42:6;54:19 gallons (1)
4:15;57:17;60:14 exempt (1) 52:13 exerted (1) 47:15 exist (2) 27:18;41:3 existing (7) 7:3;14:24;21:7,19; 38:6;49:6;66:24 exists (1) 30:12 expanded (2) 43:19;76:17	factors (3) 14:9;36:8;78:9 facts (1) 62:4 fail (1) 21:2 fails (2) 27:14;66:15 fair (1) 12:2 faith (1) 62:19 fall (1) 35:24 Falls (6)	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1) 7:17 final (2) 43:15;48:3 finally (4) 10:17;32:5,10; 59:11 finance (1) 43:25 Financial (3) 4:24;51:23;73:6 financially (4)	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1) 53:5 following (2) 3:1;4:15 follows (2) 4:7;10:8 footprint (3) 36:18;52:22,24 footprints (1) 43:20 Force (1) 54:21	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24 Furthermore (1) 20:4 future (3) 8:1;58:1;70:2 G Gallatin (2) 42:6;54:19 gallons (1) 71:12
4:15;57:17;60:14 exempt (1) 52:13 exerted (1) 47:15 exist (2) 27:18;41:3 existing (7) 7:3;14:24;21:7,19; 38:6;49:6;66:24 exists (1) 30:12 expanded (2) 43:19;76:17 expected (2)	factors (3) 14:9;36:8;78:9 facts (1) 62:4 fail (1) 21:2 fails (2) 27:14;66:15 fair (1) 12:2 faith (1) 62:19 fall (1) 35:24 Falls (6) 23:15;43:23;54:3,	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1) 7:17 final (2) 43:15;48:3 finally (4) 10:17;32:5,10; 59:11 finance (1) 43:25 Financial (3) 4:24;51:23;73:6 financially (4) 41:7;62:11;71:19;	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1) 53:5 following (2) 3:1;4:15 follows (2) 4:7;10:8 footprint (3) 36:18;52:22,24 footprints (1) 43:20 Force (1) 54:21 forced (4)	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24 Furthermore (1) 20:4 future (3) 8:1;58:1;70:2 G Gallatin (2) 42:6;54:19 gallons (1) 71:12 Galt (1)
4:15;57:17;60:14 exempt (1) 52:13 exerted (1) 47:15 exist (2) 27:18;41:3 existing (7) 7:3;14:24;21:7,19; 38:6;49:6;66:24 exists (1) 30:12 expanded (2) 43:19;76:17 expected (2) 30:4;35:5	factors (3) 14:9;36:8;78:9 facts (1) 62:4 fail (1) 21:2 fails (2) 27:14;66:15 fair (1) 12:2 faith (1) 62:19 fall (1) 35:24 Falls (6) 23:15;43:23;54:3, 16;55:3,4	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1) 7:17 final (2) 43:15;48:3 finally (4) 10:17;32:5,10; 59:11 finance (1) 43:25 Financial (3) 4:24;51:23;73:6 financially (4) 41:7;62:11;71:19; 73:9	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1) 53:5 following (2) 3:1;4:15 follows (2) 4:7;10:8 footprint (3) 36:18;52:22,24 footprints (1) 43:20 Force (1) 54:21 forced (4) 29:23;31:25;32:3,	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24 Furthermore (1) 20:4 future (3) 8:1;58:1;70:2 G Gallatin (2) 42:6;54:19 gallons (1) 71:12 Galt (1) 57:17
4:15;57:17;60:14 exempt (1) 52:13 exerted (1) 47:15 exist (2) 27:18;41:3 existing (7) 7:3;14:24;21:7,19; 38:6;49:6;66:24 exists (1) 30:12 expanded (2) 43:19;76:17 expected (2) 30:4;35:5 expecting (1)	factors (3) 14:9;36:8;78:9 facts (1) 62:4 fail (1) 21:2 fails (2) 27:14;66:15 fair (1) 12:2 faith (1) 62:19 fall (1) 35:24 Falls (6) 23:15;43:23;54:3, 16;55:3,4 Families (2)	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1) 7:17 final (2) 43:15;48:3 finally (4) 10:17;32:5,10; 59:11 finance (1) 43:25 Financial (3) 4:24;51:23;73:6 financially (4) 41:7;62:11;71:19; 73:9 find (4)	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1) 53:5 following (2) 3:1;4:15 follows (2) 4:7;10:8 footprint (3) 36:18;52:22,24 footprints (1) 43:20 Force (1) 54:21 forced (4) 29:23;31:25;32:3, 4	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24 Furthermore (1) 20:4 future (3) 8:1;58:1;70:2 G Gallatin (2) 42:6;54:19 gallons (1) 71:12 Galt (1) 57:17 gas (5)
4:15;57:17;60:14 exempt (1) 52:13 exerted (1) 47:15 exist (2) 27:18;41:3 existing (7) 7:3;14:24;21:7,19; 38:6;49:6;66:24 exists (1) 30:12 expanded (2) 43:19;76:17 expected (2) 30:4;35:5 expecting (1) 68:9	factors (3) 14:9;36:8;78:9 facts (1) 62:4 fail (1) 21:2 fails (2) 27:14;66:15 fair (1) 12:2 faith (1) 62:19 fall (1) 35:24 Falls (6) 23:15;43:23;54:3, 16;55:3,4 Families (2) 5:6;33:4	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1) 7:17 final (2) 43:15;48:3 finally (4) 10:17;32:5,10; 59:11 finance (1) 43:25 Financial (3) 4:24;51:23;73:6 financially (4) 41:7;62:11;71:19; 73:9 find (4) 37:11;53:18;	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1) 53:5 following (2) 3:1;4:15 follows (2) 4:7;10:8 footprint (3) 36:18;52:22,24 footprints (1) 43:20 Force (1) 54:21 forced (4) 29:23;31:25;32:3, 4 forever (1)	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24 Furthermore (1) 20:4 future (3) 8:1;58:1;70:2 G Gallatin (2) 42:6;54:19 gallons (1) 71:12 Galt (1) 57:17 gas (5) 25:15,19;36:17;
4:15;57:17;60:14 exempt (1) 52:13 exerted (1) 47:15 exist (2) 27:18;41:3 existing (7) 7:3;14:24;21:7,19; 38:6;49:6;66:24 exists (1) 30:12 expanded (2) 43:19;76:17 expected (2) 30:4;35:5 expecting (1) 68:9 expended (1)	factors (3) 14:9;36:8;78:9 facts (1) 62:4 fail (1) 21:2 fails (2) 27:14;66:15 fair (1) 12:2 faith (1) 62:19 fall (1) 35:24 Falls (6) 23:15;43:23;54:3, 16;55:3,4 Families (2)	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1) 7:17 final (2) 43:15;48:3 finally (4) 10:17;32:5,10; 59:11 finance (1) 43:25 Financial (3) 4:24;51:23;73:6 financially (4) 41:7;62:11;71:19; 73:9 find (4) 37:11;53:18; 69:17;74:13	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1) 53:5 following (2) 3:1;4:15 follows (2) 4:7;10:8 footprint (3) 36:18;52:22,24 footprints (1) 43:20 Force (1) 54:21 forced (4) 29:23;31:25;32:3, 4 forever (1) 55:13	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24 Furthermore (1) 20:4 future (3) 8:1;58:1;70:2 G Gallatin (2) 42:6;54:19 gallons (1) 71:12 Galt (1) 57:17 gas (5)
4:15;57:17;60:14 exempt (1) 52:13 exerted (1) 47:15 exist (2) 27:18;41:3 existing (7) 7:3;14:24;21:7,19; 38:6;49:6;66:24 exists (1) 30:12 expanded (2) 43:19;76:17 expected (2) 30:4;35:5 expecting (1) 68:9 expended (1) 30:2	factors (3) 14:9;36:8;78:9 facts (1) 62:4 fail (1) 21:2 fails (2) 27:14;66:15 fair (1) 12:2 faith (1) 62:19 fall (1) 35:24 Falls (6) 23:15;43:23;54:3, 16;55:3,4 Families (2) 5:6;33:4 family (1) 79:4	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1) 7:17 final (2) 43:15;48:3 finally (4) 10:17;32:5,10; 59:11 finance (1) 43:25 Financial (3) 4:24;51:23;73:6 financially (4) 41:7;62:11;71:19; 73:9 find (4) 37:11;53:18; 69:17;74:13 finish (1)	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1) 53:5 following (2) 3:1;4:15 follows (2) 4:7;10:8 footprint (3) 36:18;52:22,24 footprints (1) 43:20 Force (1) 54:21 forced (4) 29:23;31:25;32:3, 4 forever (1) 55:13 forget (1)	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24 Furthermore (1) 20:4 future (3) 8:1;58:1;70:2 G Gallatin (2) 42:6;54:19 gallons (1) 71:12 Galt (1) 57:17 gas (5) 25:15,19;36:17; 43:20;57:23 gases (1)
4:15;57:17;60:14 exempt (1) 52:13 exerted (1) 47:15 exist (2) 27:18;41:3 existing (7) 7:3;14:24;21:7,19; 38:6;49:6;66:24 exists (1) 30:12 expanded (2) 43:19;76:17 expected (2) 30:4;35:5 expecting (1) 68:9 expended (1) 30:2 expensive (4)	factors (3) 14:9;36:8;78:9 facts (1) 62:4 fail (1) 21:2 fails (2) 27:14;66:15 fair (1) 12:2 faith (1) 62:19 fall (1) 35:24 Falls (6) 23:15;43:23;54:3, 16;55:3,4 Families (2) 5:6;33:4 family (1) 79:4 far (3)	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1) 7:17 final (2) 43:15;48:3 finally (4) 10:17;32:5,10; 59:11 finance (1) 43:25 Financial (3) 4:24;51:23;73:6 financially (4) 41:7;62:11;71:19; 73:9 find (4) 37:11;53:18; 69:17;74:13 finish (1) 78:25	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1) 53:5 following (2) 3:1;4:15 follows (2) 4:7;10:8 footprint (3) 36:18;52:22,24 footprints (1) 43:20 Force (1) 54:21 forced (4) 29:23;31:25;32:3, 4 forever (1) 55:13 forget (1) 67:20	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24 Furthermore (1) 20:4 future (3) 8:1;58:1;70:2 G Gallatin (2) 42:6;54:19 gallons (1) 71:12 Galt (1) 57:17 gas (5) 25:15,19;36:17; 43:20;57:23 gases (1) 30:5
4:15;57:17;60:14 exempt (1) 52:13 exerted (1) 47:15 exist (2) 27:18;41:3 existing (7) 7:3;14:24;21:7,19; 38:6;49:6;66:24 exists (1) 30:12 expanded (2) 43:19;76:17 expected (2) 30:4;35:5 expecting (1) 68:9 expended (1) 30:2 expensive (4) 43:21;67:6;71:23,	factors (3) 14:9;36:8;78:9 facts (1) 62:4 fail (1) 21:2 fails (2) 27:14;66:15 fair (1) 12:2 faith (1) 62:19 fall (1) 35:24 Falls (6) 23:15;43:23;54:3, 16;55:3,4 Families (2) 5:6;33:4 family (1) 79:4	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1) 7:17 final (2) 43:15;48:3 finally (4) 10:17;32:5,10; 59:11 finance (1) 43:25 Financial (3) 4:24;51:23;73:6 financially (4) 41:7;62:11;71:19; 73:9 find (4) 37:11;53:18; 69:17;74:13 finish (1) 78:25 first (13)	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1) 53:5 following (2) 3:1;4:15 follows (2) 4:7;10:8 footprint (3) 36:18;52:22,24 footprints (1) 43:20 Force (1) 54:21 forced (4) 29:23;31:25;32:3, 4 forever (1) 55:13 forget (1) 67:20 forgot (1)	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24 Furthermore (1) 20:4 future (3) 8:1;58:1;70:2 G Gallatin (2) 42:6;54:19 gallons (1) 71:12 Galt (1) 57:17 gas (5) 25:15,19;36:17; 43:20;57:23 gases (1) 30:5 gather (1)
4:15;57:17;60:14 exempt (1) 52:13 exerted (1) 47:15 exist (2) 27:18;41:3 existing (7) 7:3;14:24;21:7,19; 38:6;49:6;66:24 exists (1) 30:12 expanded (2) 43:19;76:17 expected (2) 30:4;35:5 expecting (1) 68:9 expended (1) 30:2 expensive (4)	factors (3) 14:9;36:8;78:9 facts (1) 62:4 fail (1) 21:2 fails (2) 27:14;66:15 fair (1) 12:2 faith (1) 62:19 fall (1) 35:24 Falls (6) 23:15;43:23;54:3, 16;55:3,4 Families (2) 5:6;33:4 family (1) 79:4 far (3)	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1) 7:17 final (2) 43:15;48:3 finally (4) 10:17;32:5,10; 59:11 finance (1) 43:25 Financial (3) 4:24;51:23;73:6 financially (4) 41:7;62:11;71:19; 73:9 find (4) 37:11;53:18; 69:17;74:13 finish (1) 78:25 first (13) 10:12,14;22:5;	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1) 53:5 following (2) 3:1;4:15 follows (2) 4:7;10:8 footprint (3) 36:18;52:22,24 footprints (1) 43:20 Force (1) 54:21 forced (4) 29:23;31:25;32:3, 4 forever (1) 55:13 forget (1) 67:20	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24 Furthermore (1) 20:4 future (3) 8:1;58:1;70:2 G Gallatin (2) 42:6;54:19 gallons (1) 71:12 Galt (1) 57:17 gas (5) 25:15,19;36:17; 43:20;57:23 gases (1) 30:5
4:15;57:17;60:14 exempt (1) 52:13 exerted (1) 47:15 exist (2) 27:18;41:3 existing (7) 7:3;14:24;21:7,19; 38:6;49:6;66:24 exists (1) 30:12 expanded (2) 43:19;76:17 expected (2) 30:4;35:5 expecting (1) 68:9 expended (1) 30:2 expensive (4) 43:21;67:6;71:23,	factors (3) 14:9;36:8;78:9 facts (1) 62:4 fail (1) 21:2 fails (2) 27:14;66:15 fair (1) 12:2 faith (1) 62:19 fall (1) 35:24 Falls (6) 23:15;43:23;54:3, 16;55:3,4 Families (2) 5:6;33:4 family (1) 79:4 far (3) 26:12;34:24;36:12	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1) 7:17 final (2) 43:15;48:3 finally (4) 10:17;32:5,10; 59:11 finance (1) 43:25 Financial (3) 4:24;51:23;73:6 financially (4) 41:7;62:11;71:19; 73:9 find (4) 37:11;53:18; 69:17;74:13 finish (1) 78:25 first (13)	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1) 53:5 following (2) 3:1;4:15 follows (2) 4:7;10:8 footprint (3) 36:18;52:22,24 footprints (1) 43:20 Force (1) 54:21 forced (4) 29:23;31:25;32:3, 4 forever (1) 55:13 forget (1) 67:20 forgot (1)	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24 Furthermore (1) 20:4 future (3) 8:1;58:1;70:2 G Gallatin (2) 42:6;54:19 gallons (1) 71:12 Galt (1) 57:17 gas (5) 25:15,19;36:17; 43:20;57:23 gases (1) 30:5 gather (1)
4:15;57:17;60:14 exempt (1) 52:13 exerted (1) 47:15 exist (2) 27:18;41:3 existing (7) 7:3;14:24;21:7,19; 38:6;49:6;66:24 exists (1) 30:12 expanded (2) 43:19;76:17 expected (2) 30:4;35:5 expecting (1) 68:9 expended (1) 30:2 expensive (4) 43:21;67:6;71:23, 24	factors (3) 14:9;36:8;78:9 facts (1) 62:4 fail (1) 21:2 fails (2) 27:14;66:15 fair (1) 12:2 faith (1) 62:19 fall (1) 35:24 Falls (6) 23:15;43:23;54:3, 16;55:3,4 Families (2) 5:6;33:4 family (1) 79:4 far (3) 26:12;34:24;36:12 farm (2)	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1) 7:17 final (2) 43:15;48:3 finally (4) 10:17;32:5,10; 59:11 finance (1) 43:25 Financial (3) 4:24;51:23;73:6 financially (4) 41:7;62:11;71:19; 73:9 find (4) 37:11;53:18; 69:17;74:13 finish (1) 78:25 first (13) 10:12,14;22:5;	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1) 53:5 following (2) 3:1;4:15 follows (2) 4:7;10:8 footprint (3) 36:18;52:22,24 footprints (1) 43:20 Force (1) 54:21 forced (4) 29:23;31:25;32:3, 4 forever (1) 55:13 forget (1) 67:20 forgot (1) 36:21	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24 Furthermore (1) 20:4 future (3) 8:1;58:1;70:2 Gallatin (2) 42:6;54:19 gallons (1) 71:12 Galt (1) 57:17 gas (5) 25:15,19;36:17; 43:20;57:23 gases (1) 30:5 gather (1) 27:11
4:15;57:17;60:14 exempt (1) 52:13 exerted (1) 47:15 exist (2) 27:18;41:3 existing (7) 7:3;14:24;21:7,19; 38:6;49:6;66:24 exists (1) 30:12 expanded (2) 43:19;76:17 expected (2) 30:4;35:5 expecting (1) 68:9 expended (1) 30:2 expensive (4) 43:21;67:6;71:23, 24 experience (2)	factors (3) 14:9;36:8;78:9 facts (1) 62:4 fail (1) 21:2 fails (2) 27:14;66:15 fair (1) 12:2 faith (1) 62:19 fall (1) 35:24 Falls (6) 23:15;43:23;54:3, 16;55:3,4 Families (2) 5:6;33:4 family (1) 79:4 far (3) 26:12;34:24;36:12 farm (2) 79:4,5	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1) 7:17 final (2) 43:15;48:3 finally (4) 10:17;32:5,10; 59:11 finance (1) 43:25 Financial (3) 4:24;51:23;73:6 financially (4) 41:7;62:11;71:19; 73:9 find (4) 37:11;53:18; 69:17;74:13 finish (1) 78:25 first (13) 10:12,14;22:5; 24:12;29:3,22;31:5;	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1) 53:5 following (2) 3:1;4:15 follows (2) 4:7;10:8 footprint (3) 36:18;52:22,24 footprints (1) 43:20 Force (1) 54:21 forced (4) 29:23;31:25;32:3, 4 forever (1) 55:13 forget (1) 67:20 forgot (1) 36:21 Fork (4)	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24 Furthermore (1) 20:4 future (3) 8:1;58:1;70:2 Gallatin (2) 42:6;54:19 gallons (1) 71:12 Galt (1) 57:17 gas (5) 25:15,19;36:17; 43:20;57:23 gases (1) 30:5 gather (1) 27:11 gathering (1)
4:15;57:17;60:14 exempt (1) 52:13 exerted (1) 47:15 exist (2) 27:18;41:3 existing (7) 7:3;14:24;21:7,19; 38:6;49:6;66:24 exists (1) 30:12 expanded (2) 43:19;76:17 expected (2) 30:4;35:5 expecting (1) 68:9 expended (1) 30:2 expensive (4) 43:21;67:6;71:23, 24 experience (2) 38:4;48:19	factors (3) 14:9;36:8;78:9 facts (1) 62:4 fail (1) 21:2 fails (2) 27:14;66:15 fair (1) 12:2 faith (1) 62:19 fall (1) 35:24 Falls (6) 23:15;43:23;54:3, 16;55:3,4 Families (2) 5:6;33:4 family (1) 79:4 far (3) 26:12;34:24;36:12 farm (2) 79:4,5 fashion (1)	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1) 7:17 final (2) 43:15;48:3 finally (4) 10:17;32:5,10; 59:11 finance (1) 43:25 Financial (3) 4:24;51:23;73:6 financially (4) 41:7;62:11;71:19; 73:9 find (4) 37:11;53:18; 69:17;74:13 finish (1) 78:25 first (13) 10:12,14;22:5; 24:12;29:3,22;31:5; 32:24;38:8;59:15;	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1) 53:5 following (2) 3:1;4:15 follows (2) 4:7;10:8 footprint (3) 36:18;52:22,24 footprints (1) 43:20 Force (1) 54:21 forced (4) 29:23;31:25;32:3, 4 forever (1) 55:13 forget (1) 67:20 forgot (1) 36:21 Fork (4) 49:1,6;51:8;76:5	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24 Furthermore (1) 20:4 future (3) 8:1;58:1;70:2 Gallatin (2) 42:6;54:19 gallons (1) 71:12 Galt (1) 57:17 gas (5) 25:15,19;36:17; 43:20;57:23 gases (1) 30:5 gather (1) 27:11 gathering (1) 60:19
4:15;57:17;60:14 exempt (1) 52:13 exerted (1) 47:15 exist (2) 27:18;41:3 existing (7) 7:3;14:24;21:7,19; 38:6;49:6;66:24 exists (1) 30:12 expanded (2) 43:19;76:17 expected (2) 30:4;35:5 expecting (1) 68:9 expended (1) 30:2 expensive (4) 43:21;67:6;71:23, 24 experience (2) 38:4;48:19 experts (1)	factors (3) 14:9;36:8;78:9 facts (1) 62:4 fail (1) 21:2 fails (2) 27:14;66:15 fair (1) 12:2 faith (1) 62:19 fall (1) 35:24 Falls (6) 23:15;43:23;54:3, 16;55:3,4 Families (2) 5:6;33:4 family (1) 79:4 far (3) 26:12;34:24;36:12 farm (2) 79:4,5 fashion (1) 78:17	Figure (5) 35:10;39:22;48:7; 60:20;62:12 filling (1) 7:17 final (2) 43:15;48:3 finally (4) 10:17;32:5,10; 59:11 finance (1) 43:25 Financial (3) 4:24;51:23;73:6 financially (4) 41:7;62:11;71:19; 73:9 find (4) 37:11;53:18; 69:17;74:13 finish (1) 78:25 first (13) 10:12,14;22:5; 24:12;29:3,22;31:5; 32:24;38:8;59:15; 63:12;71:2;75:1	12:3;28:12;33:7; 34:8;46:20;72:20; 79:7,7 follow (1) 53:5 following (2) 3:1;4:15 follows (2) 4:7;10:8 footprint (3) 36:18;52:22,24 footprints (1) 43:20 Force (1) 54:21 forced (4) 29:23;31:25;32:3, 4 forever (1) 55:13 forget (1) 67:20 forgot (1) 36:21 Fork (4) 49:1,6;51:8;76:5 form (2)	26:7,11;40:4 Further (6) 27:25;46:8;48:13; 52:11,20;53:24 Furthermore (1) 20:4 future (3) 8:1;58:1;70:2 G Gallatin (2) 42:6;54:19 gallons (1) 71:12 Galt (1) 57:17 gas (5) 25:15,19;36:17; 43:20;57:23 gases (1) 30:5 gather (1) 27:11 gathering (1) 60:19 GAUB (2)

Rules Heat mag				5une 10, 2024
54:2	30:24;54:10	57:21	36:4,5;39:15;44:10	24:6
general (9)	grouse (1)	Harlow (4)	highest (5)	impact (18)
19:4,8;22:11,14;	58:4	65:9,13,13;70:13	19:17;41:10;	6:16;13:3;14:12;
60:3;74:19;80:9,11,	growing (2)	H-a-r-l-o-w (1)	49:15;71:10;77:15	15:9;16:10;22:8;
13	76:7;79:15	65:14	high-level (1)	34:2;38:8,14,25;
GILLESPIE (3)	· · · · · · · · · · · · · · · · · · ·			
	grown (1)	harms (1)	54:8	41:18;49:5,12;
63:25;64:3,5	35:6	30:5	highly (1)	51:24;62:2,3;63:2;
given (3)	growth (3)	HDR (1)	55:18	76:15
16:15;51:16;69:24	49:8;79:13,25	23:17	Hi-Line (1)	impacted (1)
gives (1)	guarantee (1)	healed (1)	64:6	49:9
9:19	66:12	79:12	Hilsenhoff (1)	impacting (4)
giving (3)	guaranteed (1)	Health (4)	20:23	14:9;20:3;53:1;
12:12;33:23;68:6	9:16	5:6,8;31:12;40:15	hindering (1)	70:3
glad (1)	guess (6)	healthy (1)	21:20	impacts (9)
76:21	12:2;18:24;41:11;	36:20	hiring (1)	13:22;16:14;
glasses (1)	47:10;64:10;80:23	hear (7)	53:17	22:17,21;28:1;35:19,
36:21	guidance (11)	10:11,13,15;	Historical (2)	24;41:20;62:11
goal (1)	21:15;24:19,25;	11:12;28:20;41:1;	5:4;24:25	impaired (1)
52:23	30:19,20;31:6;45:3,	58:17	hit (2)	27:25
goals (3)	8;52:2;74:23;75:2	heard (2)	37:6;64:4	impairment (1)
13:8;25:23;26:1	guide (1)	10:16;64:10	hold (1)	27:1
goes (3)	68:23	HEARING (52)	64:10	imperative (1)
33:17;37:8;59:8	guided (1)	3:5,6,8,11;4:2;8:2,	holding (1)	45:14
Good (19)	76:23	9,10,17,18,20;9:1,	60:10	implement (5)
3:5;12:17;23:7;	guidelines (1)	10;11:11,17,23;	Holmes (5)	32:6;39:9;41:21;
28:15;34:21;39:19;	17:24	12:22;14:16;18:4,	70:16,19,20;	44:18;58:12
41:25;54:1,24;	guides (1)	21;23:6;28:5,11;	72:19;73:3	implementation (8)
55:19;57:13;60:13;	77:2	32:18;33:9;37:15,19,	H-o-l-m-e-s (1)	3:20;11:20;15:25;
62:18,19;63:25;	guys (2)	22;41:23;46:7,18;	70:20	35:15,19;38:11;
64:11,15;65:1;70:19	33:8;36:25	48:11;53:23;57:12;	home (2)	46:3;67:23
government (3)		60:10,11;61:20;63:4,	29:15;34:21	implemented (1)
7:7;48:22;58:3	H	10,19,23;65:5,16;	hope (1)	31:6
governor's (1)		66:18;70:12;72:18;	48:3	implementing (2)
70:24	HAC (1)	73:14,19,23;80:6,15;	hour (1)	22:17;40:17
grade (1)	41:10	81:1	30:9	implications (2)
41:21	half (3)	hearings (1)	housing (6)	16:7;17:25
gradient (1)	27:6,6;38:22	58:16	36:2,4,8;52:20,21;	important (4)
28:2	hand (6)	heavily (1)	53:4	35:14;67:17;
Gradually (1)	12:7,11;18:18;	42:18	huge (6)	68:15,16
79:12	73:18;78:24;80:13	heightening (1)	36:1;62:14;64:18;	Importantly (1)
grand (1)	handful (1)	20:11	69:3;76:6,6	17:2
32:7	39:2	held (1)	Human (2)	imposes (1)
grandfathered (1)	handle (1)	51:6	5:6,8	21:18
69:25	70:8	Helena (9)	hundred (3)	imposing (1)
Great (8)	handout (1)	3:9;7:4,21;9:13;	57:20,20;61:24	23:3
23:15;33:1;34:8;	43:6	23:15;32:22;33:15;	hundreds (3)	impossibly (1)
54:3,16;55:3,4;76:19	hands (3)	35:20;65:15	30:1;49:21;61:6	20:25
greater (4)	73:22;80:14,16	Hello (3)		impractical (1)
15:15;16:3;42:17,	happen (1)	32:19;48:15;61:21	Ι	20:15
25	66:18	help (5)		improve (6)
green (2)	happened (2)	31:9;53:17;57:23;	Idaho (1)	17:9;38:13;43:23;
35:2,2	64:14;77:25	64:23;80:1	76:12	49:14;53:16;76:11
greenhouse (4)	happening (2)	helpful (1)	identify (2)	improved (2)
25:15;30:5;36:17;	60:20;68:17	58:16	12:13;17:15	76:16;79:23
43:20	harbor (2)	Hey (1)	identifying (1)	improvement (3)
grew (3)	50:25;52:1	56:1	14:10	42:5;43:5,22
54:17;79:3,7	hard (9)	Hi (1)	II (8)	improvements (8)
Group (13)	34:25;53:21;70:6,	74:6	3:13;8:11;9:9;	30:4;35:23;44:1,
14:4.14.17:24:1:		high (6)	11.18.12.74.16.7	25:40:2:50/10 17 / 5
14:4,14,17;24:1; 28:19:29:4:32:13:	8;73:10;74:13,17;	high (6) 27:7.8.9:36:5:	11:18;15:24;16:2; 17:8:78:3	23;46:2;50:16,17,23 improving (2)
28:19;29:4;32:13;	8;73:10;74:13,17; 77:10;79:22	27:7,8,9;36:5;	17:8;78:3	improving (2)
28:19;29:4;32:13; 38:2;45:3;46:15;	8;73:10;74:13,17; 77:10;79:22 harder (2)	27:7,8,9;36:5; 41:21;43:2	17:8;78:3 illustrating (1)	improving (2) 41:17;76:9
28:19;29:4;32:13;	8;73:10;74:13,17; 77:10;79:22	27:7,8,9;36:5;	17:8;78:3	improving (2)

Inability (1) 52:18 inaction (1) 38:10 incentive (2) 71:17;73:8 incentives (2) 24:13:31:17 incentivize (1) 52:11 inception (1) 46:17 include (5) 13:5;14:5;15:11; 17:3;39:8 included (2) 8:17;24:12 includes (1) 22:16 including (4) 16:24;30:5;55:7; 79:18 incomplete (1) 38:15 inconsistent (1) 27:7 incorrect (1) 62:4 increase (6) 35:4,5:36:15,16; 51:5:53:1 increased (3) 36:17.18:77:14 increases (1) 78:18 increasing (1) 55:8 incremental (7) 14:6;16:19;38:11; 40:1:43:4,22:46:2 incrementally (2) 40:17,17 independent (2) 26:23;67:4 Index (1) 20:23 indicate (5) 7:10,24;10:24; 11:5;12:8 indicated (5) 7:14:11:10:42:20: 51:15;80:20 indicates (2) 9:10,21 individual (3) 27:8,13,22 individuals (1) 53:24 industrial (1) 60:7 Industry (9) 4:20;20:20;30:23; 47:8,14;49:18;57:22,

24:58:7 infeasible (1) 25:3 infiltration (1) 50:12 inflation (2) 49:17;55:6 influences (1) 35:8 informal (1) 34:6 information (7) 30:16;38:25;63:9, 17;66:9;70:8;74:10 informational (1) 11:11 informed (3) 10:1;33:24;67:11 Infrastructure (6) 47:25;50:13;52:4; 53:2;56:20;73:11 initially (2) 33:12;40:19 input (3) 14:16;46:24;48:1 inputs (1) 43:19 insect (1) 15:12 insects (1) 20:19 install (2) 50:12:52:3 Installation (1) 26:6 installing (1) 50:20 Instead (4) 53:8,14;61:9: 77:23 Institutions (1) 4:24 in-stream (2) 15:8,17 Instruction (1) 5:4 Insurance (1) 4:22 integration (1) 78:13 intelligently (1) 34:4 intended (4) 42:4;44:12;52:9; 76:23 intends (1) 59:7 intent (5) 6:19;47:5;58:17; 59:20:60:16 intentions (1) 22:19 interest (2)

49:23;67:25 interested (8) 7:8,9,11,16;9:20; 10:1:33:15:46:13 interests (1) 7:25 Interim (15) 4:9,11,12,18:5:1,7. 9,12,15,19,25;6:7,12, 24;45:16 intermittent (1) 20:16 interpret (1) 13:22 into (21) 8:16,24;18:7; 24:14;29:12,21; 31:19;39:14;40:24; 45:8,9;47:7,13; 49:21;54:13;56:19; 59:1:61:16:65:15; 74:20:79:6 introduce (1) 6:20 introduction (2) 20:4,19 introductory (5) 10:10;12:16,21; 17:21;18:1 invent (1) 53:9 invest (4) 23:22:50:18; 56:16.19 invested (4) 23:20;24:17; 42:18:71:8 investing (3) 40:5;50:4;53:14 investment (6) 42:21;50:2;51:25; 56:25:57:3:60:5 **Investments (8)** 5:21;39:14;42:14; 44:14;49:23;50:16, 22;51:11 invite (1) 6:25 involved (1) 78:11 irrigation (2) 75:21.25 isolated (1) 20:17 Issue (3) 8:4;11:17;40:21 issues (4) 26:19;33:19; 57:25;68:5 items (1) 45:11 **IVERSON (3)** 61:21,22;64:17

	June 10, 2024
J	L
J	L
Jason (1)	Labor (1)
54:11	4:20
job (2)	lack (2)
33:7;34:8	20:21;21:14
John (2)	lagoon (2)
58:13;61:21 Johnson (15)	38:1,19
7:19,23;18:17;	lagoons (1) 52:16
19:6;63:8,14,21,24;	laid (1)
64:1;65:9;70:16;	47:20
72:22;73:16,21;	Lake (1)
80:12	76:12
joined (1)	lakes (5)
54:15	68:18;69:1,13; 74:10:76:12
joining (1) 12:10	74:10;76:13 land (5)
joint (1)	50:5,5;75:21,25;
6:22	76:18
jump (1)	language (1)
34:7	65:21
June (3)	large (7)
3:7;9:16;11:9	13:18;27:5;28:18,
Justice (3) 5:9,11;6:2	20;50:11;59:4;64:19
justify (4)	largely (1) 20:1
20:25;55:21;	larger (1)
56:16;73:11	38:5
	LASHLEY (2)
K	37:25,25
Iroomly (1)	last (10) 33:5,23;36:23;
keenly (1) 29:16	44:2;46:15;54:15;
keep (4)	55:5,7;64:8;75:13
50:20;51:8;55:2;	later (5)
76:3	9:15;11:8;17:7;
Kelly (1)	30:19;64:25
60:13 Kon (2)	Law (3) 5:9;7:6;17:6
Ken (2) 19:4,7	lawyers (1)
key (1)	53:17
36:3	lead (2)
kind (11)	53:5;55:13
38:17;47:2;54:8;	League (5)
56:19,21,24;57:1;	28:10;30:22;
64:9,13,16;65:1 knowing (1)	42:19;47:24;60:15 least (2)
51:1	36:23;74:23
knowledge (1)	least-impacted (1)
57:23	77:1
known (1)	leave (1)
50:19 Kohtz (1)	41:12 logyag (1)
Kohtz (1) 41:25	leaves (1) 21:11
KRYWARUCHKA (4)	leaving (1)
12:17,18;18:6;	26:17
80:5	led (1)
KUHTZ (2)	49:2
41:25;42:10	legal (4)
Kurt (3)	8:12,22;22:4;47:3
3:25;33:20;37:14	legislation (1)

		1	1	
60:23	10:5	lorynjohnson2@mtgov (1)	42:3,23;44:11,15;	measured (2)
legislative (9)	list (8)	7:24	45:24;53:9;61:17;	15:16;53:6
6:20;9:6;19:22;	7:7,9,11,12,17;	loses (1)	71:15;72:5,7,10,14;	measures (3)
21:12;22:19,22;	9:22;18:25;69:3	66:22	73:7;78:3	15:11;38:12;40:17
23:1;47:4;59:20	listed (1)	loss (1)	manager (3)	meet (12)
legislature (7)	66:7	67:2	19:5,8;54:12	30:12;33:10;47:4;
6:18,19;13:24;	listen (1)	lost (1)	many (25)	49:15,24;51:2;52:5;
20:10;22:7;58:14;	65:4	34:12	19:15;25:11,22;	53:3,9;60:16;64:21;
61:12	listened (2)	lot (14)	28:12;35:25;42:18;	75:19
length (2)	58:15;65:24	36:25;40:22;	47:16;50:3,9;52:9;	meeting (6)
8:14,23	listening (1)	41:13;46:20;49:8;	53:3;57:2;61:15;	3:10;34:3;54:13;
less (7)	65:15	54:14,22;55:4,11;	69:24;70:3,7;74:11;	57:18;64:9;69:21
15:17;38:21;	lists (1)	64:13;65:24;69:23;	75:11;76:17,24,24;	meetings (3)
66:20;67:6;70:22;	9:20	78:17,18	77:5,7;78:6,11	32:13;33:25;37:1
71:23,23	literally (1)	Louis (2)	map (1)	meets (1)
letter (1)	61:2	28:16;37:2	39:1	23:1
45:17	litigation (1)	low (2)	MAR (5)	Melissa (1)
letters (1)	21:25	20:25;75:5	3:23;12:23;19:14;	57:14
67:13	little (7)	lower (7)	22:25;23:17	member (1)
level (3)	30:3;33:8;34:10;	25:9,13;26:5,5;	marginally (1)	46:15
41:21;52:8;78:10	42:13;54:7;62:25;	30:14;44:9;76:11	38:17	members (6)
levels (9)	64:20	luxury (1)	Mary (2)	6:17,25;14:17;
21:4;24:5;25:17;	live (4)	29:15	65:9,13	24:21;57:22;60:24
30:7;49:20,24;50:1;	33:2,3;59:22;	LYNCH (2)	mass (1)	men (1)
74:9;76:25	65:14	60:13,14	25:2	57:21
Lewis (6)	Livestock (2)		master's (1)	mention (1)
36:13;57:13,14;	4:21;64:6	Μ	23:9	77:20
58:23;59:11,14	Livingston (3)		material (1)	mentioned (5)
Library (1)	70:22;71:5,14	macroinvertebrate (1)	33:19	11:22;18:6;29:4;
5:5	loading (1)	15:13	Matt (1)	41:4;68:3
licensed (1)	50:19	magnitude (2)	46:10	mentions (1)
23:8	loads (4)	25:9;30:14	matter (2)	38:16
lieu (1)	21:7;60:19;76:7,	mail (2)	3:12;11:16	met (3)
46:3	14	7:12;11:8	matters (2)	15:7;22:2;53:8
life (7)	local (4)	mailed (1)	9:23;37:4	Metcalf (1)
13:5,14;15:18;	48:22;72:9,13;	9:17	maximum (1)	3:9
21:1;26:2,25;27:18	77:12	mailing (1)	21:7	meter (2)
	1 11 (1)	7.0	(10)	24.16.20
likely (2)	locally (1)	7:3	may (16)	34:16,20
35:5;53:12	24:8	main (1)	6:17;7:17;9:11,21;	methanol (2)
35:5;53:12 limit (9)	24:8 Logan (1)	main (1) 75:1	6:17;7:17;9:11,21; 10:19;11:25;14:14;	methanol (2) 25:18,20
35:5;53:12 limit (9) 12:4;16:5;30:8;	24:8 Logan (1) 48:15	main (1) 75:1 maintain (1)	6:17;7:17;9:11,21; 10:19;11:25;14:14; 24:23;29:23;34:4;	methanol (2) 25:18,20 method (1)
35:5;53:12 limit (9) 12:4;16:5;30:8; 40:2,9;43:9;46:3;	24:8 Logan (1) 48:15 long (4)	main (1) 75:1 maintain (1) 7:7	6:17;7:17;9:11,21; 10:19;11:25;14:14; 24:23;29:23;34:4; 58:23;60:2;63:17;	methanol (2) 25:18,20 method (1) 27:4
35:5;53:12 limit (9) 12:4;16:5;30:8; 40:2,9;43:9;46:3; 52:19;59:2	24:8 Logan (1) 48:15 long (4) 12:24;13:14;16:6;	main (1) 75:1 maintain (1) 7:7 maintaining (1)	6:17;7:17;9:11,21; 10:19;11:25;14:14; 24:23;29:23;34:4; 58:23;60:2;63:17; 67:10;78:7,9	methanol (2) 25:18,20 method (1) 27:4 metrics (1)
35:5;53:12 limit (9) 12:4;16:5;30:8; 40:2,9;43:9;46:3; 52:19;59:2 limited (2)	24:8 Logan (1) 48:15 long (4) 12:24;13:14;16:6; 62:20	main (1) 75:1 maintain (1) 7:7 maintaining (1) 14:7	6:17;7:17;9:11,21; 10:19;11:25;14:14; 24:23;29:23;34:4; 58:23;60:2;63:17; 67:10;78:7,9 maybe (5)	methanol (2) 25:18,20 method (1) 27:4 metrics (1) 20:22
35:5;53:12 limit (9) 12:4;16:5;30:8; 40:2,9;43:9;46:3; 52:19;59:2 limited (2) 41:9;53:19	24:8 Logan (1) 48:15 long (4) 12:24;13:14;16:6; 62:20 long-term (1)	main (1) 75:1 maintain (1) 7:7 maintaining (1) 14:7 maintains (1)	6:17;7:17;9:11,21; 10:19;11:25;14:14; 24:23;29:23;34:4; 58:23;60:2;63:17; 67:10;78:7,9 maybe (5) 40:19;47:10;	methanol (2) 25:18,20 method (1) 27:4 metrics (1) 20:22 MGD (1)
35:5;53:12 limit (9) 12:4;16:5;30:8; 40:2,9;43:9;46:3; 52:19;59:2 limited (2) 41:9;53:19 limiting (1)	24:8 Logan (1) 48:15 long (4) 12:24;13:14;16:6; 62:20 long-term (1) 21:23	main (1) 75:1 maintain (1) 7:7 maintaining (1) 14:7 maintains (1) 9:20	6:17;7:17;9:11,21; 10:19;11:25;14:14; 24:23;29:23;34:4; 58:23;60:2;63:17; 67:10;78:7,9 maybe (5) 40:19;47:10; 56:20;58:17;66:8	methanol (2) 25:18,20 method (1) 27:4 metrics (1) 20:22 MGD (1) 70:22
35:5;53:12 limit (9) 12:4;16:5;30:8; 40:2,9;43:9;46:3; 52:19;59:2 limited (2) 41:9;53:19 limiting (1) 78:9	24:8 Logan (1) 48:15 long (4) 12:24;13:14;16:6; 62:20 long-term (1) 21:23 look (11)	main (1) 75:1 maintain (1) 7:7 maintaining (1) 14:7 maintains (1) 9:20 major (3)	6:17;7:17;9:11,21; 10:19;11:25;14:14; 24:23;29:23;34:4; 58:23;60:2;63:17; 67:10;78:7,9 maybe (5) 40:19;47:10; 56:20;58:17;66:8 MCA (4)	methanol (2) 25:18,20 method (1) 27:4 metrics (1) 20:22 MGD (1) 70:22 microphone (1)
35:5;53:12 limit (9) 12:4;16:5;30:8; 40:2,9;43:9;46:3; 52:19;59:2 limited (2) 41:9;53:19 limiting (1) 78:9 limits (18)	24:8 Logan (1) 48:15 long (4) 12:24;13:14;16:6; 62:20 long-term (1) 21:23 look (11) 39:8,19;44:6;54:8;	main (1) 75:1 maintain (1) 7:7 maintaining (1) 14:7 maintains (1) 9:20 major (3) 8:8;36:19;49:3	6:17;7:17;9:11,21; 10:19;11:25;14:14; 24:23;29:23;34:4; 58:23;60:2;63:17; 67:10;78:7,9 maybe (5) 40:19;47:10; 56:20;58:17;66:8 MCA (4) 4:3;9:24;17:11;	methanol (2) 25:18,20 method (1) 27:4 metrics (1) 20:22 MGD (1) 70:22 microphone (1) 19:6
35:5;53:12 limit (9) 12:4;16:5;30:8; 40:2,9;43:9;46:3; 52:19;59:2 limited (2) 41:9;53:19 limiting (1) 78:9 limits (18) 17:10;21:16;22:2;	24:8 Logan (1) 48:15 long (4) 12:24;13:14;16:6; 62:20 long-term (1) 21:23 look (11) 39:8,19;44:6;54:8; 56:3;61:7;66:10;	main (1) 75:1 maintain (1) 7:7 maintaining (1) 14:7 maintains (1) 9:20 major (3) 8:8;36:19;49:3 majority (1)	6:17;7:17;9:11,21; 10:19;11:25;14:14; 24:23;29:23;34:4; 58:23;60:2;63:17; 67:10;78:7,9 maybe (5) 40:19;47:10; 56:20;58:17;66:8 MCA (4) 4:3;9:24;17:11; 19:24	methanol (2) 25:18,20 method (1) 27:4 metrics (1) 20:22 MGD (1) 70:22 microphone (1) 19:6 microplastics (1)
35:5;53:12 limit (9) 12:4;16:5;30:8; 40:2,9;43:9;46:3; 52:19;59:2 limited (2) 41:9;53:19 limiting (1) 78:9 limits (18) 17:10;21:16;22:2; 24:18,20,22,24;	24:8 Logan (1) 48:15 long (4) 12:24;13:14;16:6; 62:20 long-term (1) 21:23 look (11) 39:8,19;44:6;54:8; 56:3;61:7;66:10; 68:17,24,25;72:11	main (1) 75:1 maintain (1) 7:7 maintaining (1) 14:7 maintains (1) 9:20 major (3) 8:8;36:19;49:3 majority (1) 57:6	6:17;7:17;9:11,21; 10:19;11:25;14:14; 24:23;29:23;34:4; 58:23;60:2;63:17; 67:10;78:7,9 maybe (5) 40:19;47:10; 56:20;58:17;66:8 MCA (4) 4:3;9:24;17:11; 19:24 MCINNIS (7)	methanol (2) 25:18,20 method (1) 27:4 metrics (1) 20:22 MGD (1) 70:22 microphone (1) 19:6 microplastics (1) 55:15
35:5;53:12 limit (9) 12:4;16:5;30:8; 40:2,9;43:9;46:3; 52:19;59:2 limited (2) 41:9;53:19 limiting (1) 78:9 limits (18) 17:10;21:16;22:2; 24:18,20,22,24; 26:14,16;33:10;	24:8 Logan (1) 48:15 long (4) 12:24;13:14;16:6; 62:20 long-term (1) 21:23 look (11) 39:8,19;44:6;54:8; 56:3;61:7;66:10; 68:17,24,25;72:11 looked (1)	main (1) 75:1 maintain (1) 7:7 maintaining (1) 14:7 maintains (1) 9:20 major (3) 8:8;36:19;49:3 majority (1) 57:6 makes (1)	6:17;7:17;9:11,21; 10:19;11:25;14:14; 24:23;29:23;34:4; 58:23;60:2;63:17; 67:10;78:7,9 maybe (5) 40:19;47:10; 56:20;58:17;66:8 MCA (4) 4:3;9:24;17:11; 19:24 MCINNIS (7) 23:7,8;28:6,9;	methanol (2) 25:18,20 method (1) 27:4 metrics (1) 20:22 MGD (1) 70:22 microphone (1) 19:6 microplastics (1) 55:15 Midwest (1)
35:5;53:12 limit (9) 12:4;16:5;30:8; 40:2,9;43:9;46:3; 52:19;59:2 limited (2) 41:9;53:19 limiting (1) 78:9 limits (18) 17:10;21:16;22:2; 24:18,20,22,24; 26:14,16;33:10; 39:23;42:24;43:1;	24:8 Logan (1) 48:15 long (4) 12:24;13:14;16:6; 62:20 long-term (1) 21:23 look (11) 39:8,19;44:6;54:8; 56:3;61:7;66:10; 68:17,24,25;72:11 looked (1) 34:24	main (1) 75:1 maintain (1) 7:7 maintaining (1) 14:7 maintains (1) 9:20 major (3) 8:8;36:19;49:3 majority (1) 57:6 makes (1) 50:11	6:17;7:17;9:11,21; 10:19;11:25;14:14; 24:23;29:23;34:4; 58:23;60:2;63:17; 67:10;78:7,9 maybe (5) 40:19;47:10; 56:20;58:17;66:8 MCA (4) 4:3;9:24;17:11; 19:24 MCINNIS (7) 23:7,8;28:6,9; 48:15,16;53:14	methanol (2) 25:18,20 method (1) 27:4 metrics (1) 20:22 MGD (1) 70:22 microphone (1) 19:6 microplastics (1) 55:15 Midwest (1) 25:20
35:5;53:12 limit (9) 12:4;16:5;30:8; 40:2,9;43:9;46:3; 52:19;59:2 limited (2) 41:9;53:19 limiting (1) 78:9 limits (18) 17:10;21:16;22:2; 24:18,20,22,24; 26:14,16;33:10; 39:23;42:24;43:1; 45:6,15,16;51:2;	24:8 Logan (1) 48:15 long (4) 12:24;13:14;16:6; 62:20 long-term (1) 21:23 look (11) 39:8,19;44:6;54:8; 56:3;61:7;66:10; 68:17,24,25;72:11 looked (1) 34:24 looking (7)	main (1) 75:1 maintain (1) 7:7 maintaining (1) 14:7 maintains (1) 9:20 major (3) 8:8;36:19;49:3 majority (1) 57:6 makes (1) 50:11 making (5)	6:17;7:17;9:11,21; 10:19;11:25;14:14; 24:23;29:23;34:4; 58:23;60:2;63:17; 67:10;78:7,9 maybe (5) 40:19;47:10; 56:20;58:17;66:8 MCA (4) 4:3;9:24;17:11; 19:24 MCINNIS (7) 23:7,8;28:6,9; 48:15,16;53:14 MDEQ (1)	methanol (2) 25:18,20 method (1) 27:4 metrics (1) 20:22 MGD (1) 70:22 microphone (1) 19:6 microplastics (1) 55:15 Midwest (1) 25:20 might (2)
35:5;53:12 limit (9) 12:4;16:5;30:8; 40:2,9;43:9;46:3; 52:19;59:2 limited (2) 41:9;53:19 limiting (1) 78:9 limits (18) 17:10;21:16;22:2; 24:18,20,22,24; 26:14,16;33:10; 39:23;42:24;43:1; 45:6,15,16;51:2; 53:18	24:8 Logan (1) 48:15 long (4) 12:24;13:14;16:6; 62:20 long-term (1) 21:23 look (11) 39:8,19;44:6;54:8; 56:3;61:7;66:10; 68:17,24,25;72:11 looked (1) 34:24 looking (7) 38:16;39:1;40:4,4,	main (1) 75:1 maintain (1) 7:7 maintaining (1) 14:7 maintains (1) 9:20 major (3) 8:8;36:19;49:3 majority (1) 57:6 makes (1) 50:11 making (5) 7:18;12:1;20:17;	6:17;7:17;9:11,21; 10:19;11:25;14:14; 24:23;29:23;34:4; 58:23;60:2;63:17; 67:10;78:7,9 maybe (5) 40:19;47:10; 56:20;58:17;66:8 MCA (4) 4:3;9:24;17:11; 19:24 MCINNIS (7) 23:7,8;28:6,9; 48:15,16;53:14 MDEQ (1) 26:20	methanol (2) 25:18,20 method (1) 27:4 metrics (1) 20:22 MGD (1) 70:22 microphone (1) 19:6 microplastics (1) 55:15 Midwest (1) 25:20 might (2) 39:6;56:2
35:5;53:12 limit (9) 12:4;16:5;30:8; 40:2,9;43:9;46:3; 52:19;59:2 limited (2) 41:9;53:19 limiting (1) 78:9 limits (18) 17:10;21:16;22:2; 24:18,20,22,24; 26:14,16;33:10; 39:23;42:24;43:1; 45:6,15,16;51:2; 53:18 Lin (1)	24:8 Logan (1) 48:15 long (4) 12:24;13:14;16:6; 62:20 long-term (1) 21:23 look (11) 39:8,19;44:6;54:8; 56:3;61:7;66:10; 68:17,24,25;72:11 looked (1) 34:24 looking (7) 38:16;39:1;40:4,4, 4,12,13	main (1) 75:1 maintain (1) 7:7 maintaining (1) 14:7 maintains (1) 9:20 major (3) 8:8;36:19:49:3 majority (1) 57:6 makes (1) 50:11 making (5) 7:18;12:1;20:17; 21:4;53:2	6:17;7:17;9:11,21; 10:19;11:25;14:14; 24:23;29:23;34:4; 58:23;60:2;63:17; 67:10;78:7,9 maybe (5) 40:19;47:10; 56:20;58:17;66:8 MCA (4) 4:3;9:24;17:11; 19:24 MCINNIS (7) 23:7,8;28:6,9; 48:15,16;53:14 MDEQ (1) 26:20 mean (6)	methanol (2) 25:18,20 method (1) 27:4 metrics (1) 20:22 MGD (1) 70:22 microphone (1) 19:6 microplastics (1) 55:15 Midwest (1) 25:20 might (2) 39:6;56:2 milestones (1)
35:5;53:12 limit (9) 12:4;16:5;30:8; 40:2,9;43:9;46:3; 52:19;59:2 limited (2) 41:9;53:19 limiting (1) 78:9 limits (18) 17:10;21:16;22:2; 24:18,20,22,24; 26:14,16;33:10; 39:23;42:24;43:1; 45:6,15,16;51:2; 53:18 Lin (1) 36:13	24:8 Logan (1) 48:15 long (4) 12:24;13:14;16:6; 62:20 long-term (1) 21:23 look (11) 39:8,19;44:6;54:8; 56:3;61:7;66:10; 68:17,24,25;72:11 looked (1) 34:24 looking (7) 38:16;39:1;40:4,4, 4,12,13 looks (1)	main (1) 75:1 maintain (1) 7:7 maintaining (1) 14:7 maintains (1) 9:20 major (3) 8:8;36:19:49:3 majority (1) 57:6 makes (1) 50:11 making (5) 7:18;12:1;20:17; 21:4;53:2 management (38)	6:17;7:17;9:11,21; 10:19;11:25;14:14; 24:23;29:23;34:4; 58:23;60:2;63:17; 67:10;78:7,9 maybe (5) 40:19;47:10; 56:20;58:17;66:8 MCA (4) 4:3;9:24;17:11; 19:24 MCINNIS (7) 23:7,8;28:6,9; 48:15,16;53:14 MDEQ (1) 26:20 mean (6) 34:23;36:14;37:2,	methanol (2) 25:18,20 method (1) 27:4 metrics (1) 20:22 MGD (1) 70:22 microphone (1) 19:6 microplastics (1) 55:15 Midwest (1) 25:20 might (2) 39:6;56:2 milestones (1) 16:19
35:5;53:12 limit (9) 12:4;16:5;30:8; 40:2,9;43:9;46:3; 52:19;59:2 limited (2) 41:9;53:19 limiting (1) 78:9 limits (18) 17:10;21:16;22:2; 24:18,20,22,24; 26:14,16;33:10; 39:23;42:24;43:1; 45:6,15,16;51:2; 53:18 Lin (1) 36:13 Lindsey (3)	24:8 Logan (1) 48:15 long (4) 12:24;13:14;16:6; 62:20 long-term (1) 21:23 look (11) 39:8,19;44:6;54:8; 56:3;61:7;66:10; 68:17,24,25;72:11 looked (1) 34:24 looking (7) 38:16;39:1;40:4,4, 4,12,13 looks (1) 64:17	main (1) 75:1 maintain (1) 7:7 maintaining (1) 14:7 maintains (1) 9:20 major (3) 8:8;36:19;49:3 majority (1) 57:6 makes (1) 50:11 making (5) 7:18;12:1;20:17; 21:4;53:2 management (38) 3:21;11:20;13:1;	6:17;7:17;9:11,21; 10:19;11:25;14:14; 24:23;29:23;34:4; 58:23;60:2;63:17; 67:10;78:7,9 maybe (5) 40:19;47:10; 56:20;58:17;66:8 MCA (4) 4:3;9:24;17:11; 19:24 MCINNIS (7) 23:7,8;28:6,9; 48:15,16;53:14 MDEQ (1) 26:20 mean (6) 34:23;36:14;37:2, 9;39:10;47:11	methanol (2) 25:18,20 method (1) 27:4 metrics (1) 20:22 MGD (1) 70:22 microphone (1) 19:6 microplastics (1) 55:15 Midwest (1) 25:20 might (2) 39:6;56:2 milestones (1) 16:19 Military (1)
35:5;53:12 limit (9) 12:4;16:5;30:8; 40:2,9;43:9;46:3; 52:19;59:2 limited (2) 41:9;53:19 limiting (1) 78:9 limits (18) 17:10;21:16;22:2; 24:18,20,22,24; 26:14,16;33:10; 39:23;42:24;43:1; 45:6,15,16;51:2; 53:18 Lin (1) 36:13 Lindsey (3) 12:18;36:13;70:6	24:8 Logan (1) 48:15 long (4) 12:24;13:14;16:6; 62:20 long-term (1) 21:23 look (11) 39:8,19;44:6;54:8; 56:3;61:7;66:10; 68:17,24,25;72:11 looked (1) 34:24 looking (7) 38:16;39:1;40:4,4, 4,12,13 looks (1) 64:17 loop (1)	main (1) 75:1 maintain (1) 7:7 maintaining (1) 14:7 maintains (1) 9:20 major (3) 8:8;36:19;49:3 majority (1) 57:6 makes (1) 50:11 making (5) 7:18;12:1;20:17; 21:4;53:2 management (38) 3:21;11:20;13:1; 14:5;15:25;16:17;	6:17;7:17;9:11,21; 10:19;11:25;14:14; 24:23;29:23;34:4; 58:23;60:2;63:17; 67:10;78:7,9 maybe (5) 40:19;47:10; 56:20;58:17;66:8 MCA (4) 4:3;9:24;17:11; 19:24 MCINNIS (7) 23:7,8;28:6,9; 48:15,16;53:14 MDEQ (1) 26:20 mean (6) 34:23;36:14;37:2, 9;39:10;47:11 meaningful (1)	methanol (2) 25:18,20 method (1) 27:4 metrics (1) 20:22 MGD (1) 70:22 microphone (1) 19:6 microplastics (1) 55:15 Midwest (1) 25:20 might (2) 39:6;56:2 milestones (1) 16:19 Military (1) 5:22
35:5;53:12 limit (9) 12:4;16:5;30:8; 40:2,9;43:9;46:3; 52:19;59:2 limited (2) 41:9;53:19 limiting (1) 78:9 limits (18) 17:10;21:16;22:2; 24:18,20,22,24; 26:14,16;33:10; 39:23;42:24;43:1; 45:6,15,16;51:2; 53:18 Lin (1) 36:13 Lindsey (3) 12:18;36:13;70:6 line (1)	24:8 Logan (1) 48:15 long (4) 12:24;13:14;16:6; 62:20 long-term (1) 21:23 look (11) 39:8,19;44:6;54:8; 56:3;61:7;66:10; 68:17,24,25;72:11 looked (1) 34:24 looking (7) 38:16;39:1;40:4,4, 4,12,13 looks (1) 64:17 loop (1) 56:24	<pre>main (1) 75:1 maintain (1) 7:7 maintaining (1) 14:7 maintains (1) 9:20 major (3) 8:8;36:19;49:3 majority (1) 57:6 makes (1) 50:11 making (5) 7:18;12:1;20:17; 21:4;53:2 management (38) 3:21;11:20;13:1; 14:5;15:25;16:17; 17:2;21:22;23:2;</pre>	6:17;7:17;9:11,21; 10:19;11:25;14:14; 24:23;29:23;34:4; 58:23;60:2;63:17; 67:10;78:7,9 maybe (5) 40:19;47:10; 56:20;58:17;66:8 MCA (4) 4:3;9:24;17:11; 19:24 MCINNIS (7) 23:7,8;28:6,9; 48:15,16;53:14 MDEQ (1) 26:20 mean (6) 34:23;36:14;37:2, 9;39:10;47:11 meaningful (1) 33:24	methanol (2) 25:18,20 method (1) 27:4 metrics (1) 20:22 MGD (1) 70:22 microphone (1) 19:6 microplastics (1) 55:15 Midwest (1) 25:20 might (2) 39:6;56:2 milestones (1) 16:19 Military (1) 5:22 milligrams (2)
35:5;53:12 limit (9) 12:4;16:5;30:8; 40:2,9;43:9;46:3; 52:19;59:2 limited (2) 41:9;53:19 limiting (1) 78:9 limits (18) 17:10;21:16;22:2; 24:18,20,22,24; 26:14,16;33:10; 39:23;42:24;43:1; 45:6,15,16;51:2; 53:18 Lin (1) 36:13 Lindsey (3) 12:18;36:13;70:6 line (1) 57:7	24:8 Logan (1) 48:15 long (4) 12:24;13:14;16:6; 62:20 long-term (1) 21:23 look (11) 39:8,19;44:6;54:8; 56:3;61:7;66:10; 68:17,24,25;72:11 looked (1) 34:24 looking (7) 38:16;39:1;40:4,4, 4,12,13 looks (1) 64:17 loop (1) 56:24 loosen (1)	<pre>main (1) 75:1 maintain (1) 7:7 maintaining (1) 14:7 maintains (1) 9:20 major (3) 8:8;36:19;49:3 majority (1) 57:6 makes (1) 50:11 making (5) 7:18;12:1;20:17; 21:4;53:2 management (38) 3:21;11:20;13:1; 14:5;15:25;16:17; 17:2;21:22;23:2; 24:3,4,8,15;25:6;</pre>	6:17;7:17;9:11,21; 10:19;11:25;14:14; 24:23;29:23;34:4; 58:23;60:2;63:17; 67:10;78:7,9 maybe (5) 40:19;47:10; 56:20;58:17;66:8 MCA (4) 4:3;9:24;17:11; 19:24 MCINNIS (7) 23:7,8;28:6,9; 48:15,16;53:14 MDEQ (1) 26:20 mean (6) 34:23;36:14;37:2, 9;39:10;47:11 meaningful (1) 33:24 means (3)	methanol (2) 25:18,20 method (1) 27:4 metrics (1) 20:22 MGD (1) 70:22 microphone (1) 19:6 microplastics (1) 55:15 Midwest (1) 25:20 might (2) 39:6;56:2 milestones (1) 16:19 Military (1) 5:22 milligrams (2) 34:16,20
35:5;53:12 limit (9) 12:4;16:5;30:8; 40:2,9;43:9;46:3; 52:19;59:2 limited (2) 41:9;53:19 limiting (1) 78:9 limits (18) 17:10;21:16;22:2; 24:18,20,22,24; 26:14,16;33:10; 39:23;42:24;43:1; 45:6,15,16;51:2; 53:18 Lin (1) 36:13 Lindsey (3) 12:18;36:13;70:6 line (1) 57:7 lines (2)	24:8 Logan (1) 48:15 long (4) 12:24;13:14;16:6; 62:20 long-term (1) 21:23 look (11) 39:8,19;44:6;54:8; 56:3;61:7;66:10; 68:17,24,25;72:11 looked (1) 34:24 looking (7) 38:16;39:1;40:4,4, 4,12,13 looks (1) 64:17 loop (1) 56:24 loosen (1) 69:11	main (1) 75:1 maintain (1) 7:7 maintaining (1) 14:7 maintains (1) 9:20 major (3) 8:8;36:19;49:3 majority (1) 57:6 makes (1) 50:11 making (5) 7:18;12:1;20:17; 21:4;53:2 management (38) 3:21;11:20;13:1; 14:5;15:25;16:17; 17:2;21:22;23:2; 24:3,4,8,15;25:6; 31:16,19;34:12;	6:17;7:17;9:11,21; 10:19;11:25;14:14; 24:23;29:23;34:4; 58:23;60:2;63:17; 67:10;78:7,9 maybe (5) 40:19;47:10; 56:20;58:17;66:8 MCA (4) 4:3;9:24;17:11; 19:24 MCINNIS (7) 23:7,8;28:6,9; 48:15,16;53:14 MDEQ (1) 26:20 mean (6) 34:23;36:14;37:2, 9;39:10;47:11 meaningful (1) 33:24 means (3) 17:16;56:10;80:19	methanol (2) 25:18,20 method (1) 27:4 metrics (1) 20:22 MGD (1) 70:22 microphone (1) 19:6 microplastics (1) 55:15 Midwest (1) 25:20 might (2) 39:6;56:2 milestones (1) 16:19 Military (1) 5:22 milligrams (2) 34:16,20 million (13)
35:5;53:12 limit (9) 12:4;16:5;30:8; 40:2,9;43:9;46:3; 52:19;59:2 limited (2) 41:9;53:19 limiting (1) 78:9 limits (18) 17:10;21:16;22:2; 24:18,20,22,24; 26:14,16;33:10; 39:23;42:24;43:1; 45:6,15,16;51:2; 53:18 Lin (1) 36:13 Lindsey (3) 12:18;36:13;70:6 line (1) 57:7	24:8 Logan (1) 48:15 long (4) 12:24;13:14;16:6; 62:20 long-term (1) 21:23 look (11) 39:8,19;44:6;54:8; 56:3;61:7;66:10; 68:17,24,25;72:11 looked (1) 34:24 looking (7) 38:16;39:1;40:4,4, 4,12,13 looks (1) 64:17 loop (1) 56:24 loosen (1)	<pre>main (1) 75:1 maintain (1) 7:7 maintaining (1) 14:7 maintains (1) 9:20 major (3) 8:8;36:19;49:3 majority (1) 57:6 makes (1) 50:11 making (5) 7:18;12:1;20:17; 21:4;53:2 management (38) 3:21;11:20;13:1; 14:5;15:25;16:17; 17:2;21:22;23:2; 24:3,4,8,15;25:6;</pre>	6:17;7:17;9:11,21; 10:19;11:25;14:14; 24:23;29:23;34:4; 58:23;60:2;63:17; 67:10;78:7,9 maybe (5) 40:19;47:10; 56:20;58:17;66:8 MCA (4) 4:3;9:24;17:11; 19:24 MCINNIS (7) 23:7,8;28:6,9; 48:15,16;53:14 MDEQ (1) 26:20 mean (6) 34:23;36:14;37:2, 9;39:10;47:11 meaningful (1) 33:24 means (3)	methanol (2) 25:18,20 method (1) 27:4 metrics (1) 20:22 MGD (1) 70:22 microphone (1) 19:6 microplastics (1) 55:15 Midwest (1) 25:20 might (2) 39:6;56:2 milestones (1) 16:19 Military (1) 5:22 milligrams (2) 34:16,20

Rules Hearinag	Γ	Γ	Γ	June 10, 2024
44:3;49:16,19;	32:6;33:18;36:2,20;	move (2)	65:17	45:10
56:17;57:8;71:8	38:3;42:19;45:21;	30:23;48:7	Natural (4)	non-point (5)
millions (8)	46:11;47:21,22,23,	moves (1)	6:6,11;21:3;25:19	16:25;51:7;57:5;
23:22;30:1;49:21,	24,25;48:20;49:4,11;	25:22	navigate (2)	71:18;73:8
23;50:2,4;51:1;52:3	53:3,5;57:15,19;	moving (2)	53:18;57:24	nonsignificant (1)
mind (3)	58:3,5,6,14;59:14,	30:21,25	near (2)	77:20
55:3;58:4;76:3	17;60:14,24,25;	MPDES (5)	10:24;78:8	nonsupport (1)
mines (1)	61:10;64:6;65:15,17,	24:20,22;65:19,	nearly (1)	67:8
19:16	17,22;66:2,22;67:5,	25;67:3	46:15	nor (1)
minimization (1)	11,15,19,21,25;68:5,	much (18)	necessary (2)	27:17
14:10	23;69:12,22;71:4,10;	33:9;37:13;38:10;	9:7;45:25	Notice (19)
minimum (1)	72:3,6,12;74:9;75:1;	39:15;40:22;41:13;	neck (1)	3:23;4:5,8;7:12;
77:8	76:1;77:1;79:15	44:10;49:10;56:12;	49:8	8:2,5,9,10,17,20;9:1,
Mining (3)	Montana-based (1)	62:13;64:11;65:3,6;	need (19)	9,10,19,25;10:4,6;
46:11;47:21;71:5	15:10	69:5;70:7;72:11;	26:10,11,13;	11:23;12:23
Minnesota (1)	Montanan (1)	79:22;80:24	30:19;36:1;42:7;	noticed (1)
15:22	65:17	multimillions (1)	50:1;51:5;53:1,4;	68:1
minor (2)	Montanans (2)	60:5	55:2;56:20;61:16;	notices (1)
43:22;78:22	17:19;32:16	multiple (1)	64:24;75:12;78:4;	7:13
minute (2)	Montana's (5)	35:12	79:1,16;80:1	notification (2)
33:23;43:4	16:1;29:6;44:23;	municipal (5)	needed (3)	9:22;10:4
minutes (1)	57:21,23	26:9;28:18;44:17;	41:14;45:2;79:16	notify (1)
12:5	month (1)	47:15;51:20	needing (1)	8:1
missed (1)	71:13	municipalities (6)	40:8	noting (2)
28:7	monthly (1)	35:21;47:9;50:25;	needs (6)	22:14;60:1
Missoula (10)	36:5	54:5;58:7;71:4	23:3;26:13;34:23;	nuisance (1)
23:14;48:17,20,	months (1)	municipality (1)	36:7;41:1;52:23	74:9
23;49:2,5;50:3,15;	39:5	73:10	negative (2)	Number (9)
76:9,16	more (44)	must (11)	22:21;54:23	3:24;8:4;12:23;
Missoulians (1)	12:5;15:19,20;	7:10;9:17;11:16;	negotiating (1)	30:3;31:11,21;
49:12	17:23;23:11,20,25;	20:15;22:2,15;60:4;	48:24	34:15;63:1;75:9
Missouri (2)	24:9;26:21;27:21,23,	66:12,19;75:4,7	net (1)	numbers (2)
56:10;68:4	23;28:12;29:5;	mute (1)	52:10	34:25;59:1
mixed (1)	31:16;32:3;35:7,8;	12:11	New (24)	Numeral (1)
74:14	36:9,10;39:16;	myself (3)	3:12,13;8:11,14;	15:24
MMA (1)	41:13;49:17;51:5,	32:12;54:14;74:7	9:9;11:18;14:2,4,21,	numeric (43)
47:14	20;53:3,6;54:7;	N	21;15:1;16:2,2,17,	13:17,19;14:1;
model (1) 8:7	60:25;62:25;63:1;	N	21;17:8;20:10;	16:10;19:22,25;20:4,
	67:6;73:21;74:20; 75:14,15,25;76:1,2,		21:19;52:15,19,19; 53:2;78:18,21	9,25;22:5,8,17,20;
modeling (1) 78:10	13,17;78:20;79:2,3	name (21)	next (4)	24:7;25:8,11;26:25; 28:3;31:12,14;37:8;
models (1)	Moreover (1)	3:25;7:15;10:22; 11:3;12:13,17;19:3;	49:7;63:11;65:7;	52:5;58:25;59:2,2,6,
77:21	20:24	28:15;32:20;48:15;	75:18	17;61:9,14;65:18;
modifications (1)	morning (10)	57:13:60:13:61:21;	Ninth (1)	66:11;67:1,5;69:10;
71:24	3:6;12:17;23:7;	63:15;64:2;65:10,	22:13	72:5;74:22,23,24;
Monday (2)	28:15;41:25;54:1;	13;70:17;72:23;	nitrogen (15)	75:2,9,20;76:4;77:22
9:16;11:9	60:13;70:19;71:1;	74:4,6	13:2;19:25;22:6;	numerics (1)
money (6)	72:17	names (2)	25:8,12,16;29:10;	31:15
40:8;53:15;56:19,	MOSER (30)	7:12;9:21	42:16,25;43:4,17;	nutrient (72)
21;73:11;79:9	3:5,25;18:4,21;	narrative (28)	50:14;51:15,20;75:3	3:20;11:19;13:15,
monitored (1)	23:6;28:5,11;32:18;	3:20;11:19;13:11,	Nobody (2)	17;14:1,3,3,4,14,23;
20:15	37:15,19,22;41:23;	20;14:3,23;15:2,7,	35:11;66:1	15:2,7,8,17;16:5,10,
monitoring (5)	46:7;48:11;53:23;	15;19:23;21:8;23:1,	nominal (1)	19,23;17:10;19:13,
4:14;20:18;24:16;	57:12;60:11;61:20;	22;24:10;35:15;	51:15	21;22:18;23:10;
27:10;78:10	63:4,10,19,23;65:5;	44:11,20;45:14;	noncompliant (1)	24:10,18;25:10;
Montana (91)	70:12;72:18;73:14,	57:16;59:1;65:22;	20:7	26:5;27:5;28:1,19;
3:23;4:1,4,5;5:4,5,	19,23;80:6,15	69:10;72:4,6;74:23;	non-degradation (1)	31:12,14;32:13;
16,20;7:4,6,21;8:3;	most (6)	76:20,22;77:19	77:16	35:15;38:2;39:5,9;
9:14;12:24;13:11,17,	17:15;25:19;	nation (1)	non-DEQ-12A (1)	41:6,19;42:3,5,24;
24;15:4;17:12;19:8,	48:21;50:8;51:13;	12:24	13:23	43:9,23;44:8,14,18,
10 15 00 5 00 0 10				
13,15;22:5;23:9,12,	58:11	national (1)	none (3)	20;45:2;46:4;48:24;
13,19,21,25;25:7,21;		national (1) 66:21	18:14,20,21	49:3,20;50:6,10,19;
	58:11	national (1)		

Kules Heat mag		1		June 10, 2024
57:16;69:9;70:23;	56:2;57:23	16:3;17:6		53:2;71:21
71:19,22;72:4,14;	old (4)	optional (1)	р	paying (1)
73:2;74:16;76:4,14,	75:20;76:1;78:15,	17:3	Р	44:1
25;79:18	21	options (1)		
		17:5	package (17)	pays (1) 71:11
nutrient-rich (1)	once (1) 77:21		22:24;24:5,13;	
75:24		oral (2)	26:21;27:17;30:21;	pencil (1)
nutrients (26)	one (18)	10:18;19:10	31:24;37:5;41:12;	62:25
12:25;13:1,3,23;	7:17;22:13;26:22,	orally (1)	42:11;45:22;46:23;	Pend (1)
14:11;16:7,15,25;	24;28:23;31:18;	10:21	47:13;71:17;72:2,8,	76:12
23:21,25;25:1,6;	36:8,22;37:3,4;41:5;	order (4)	13	people (15)
27:9,23;29:8;40:12;	48:3,21;60:8;64:4,9;	3:6;7:1;10:7;30:14	Page (1)	18:11,25;32:3,3;
42:15;51:4,4,6,14;	68:1;73:24	orders (1)	8:4	34:9;35:12;36:7;
57:6;61:15;74:9;	one-page (1)	25:9	Pages (4)	38:23;55:2,25;56:1;
75:22;77:22	57:9	ordinary (1)	3:24;46:23;61:6,	62:18,19;69:25;
nutritionalist (1)	ones (1)	77:10	24	70:14
64:7	38:5	Oreille (1)	pains (1)	per (4)
	ongoing (2)	76:12	79:15	34:16,20;51:21;
0	16:13;43:12	organizations (1)	Paragraph (5)	71:12
	online (17)	61:5	8:10,20;9:1,10,19	percent (8)
O&M (1)	10:13,14,16;11:1,	originally (1)	paralegal (1)	29:10,11;42:16,17,
43:12	7;18:14,16,20,22;	3:22	7:19	25;49:17;50:14;54:6
objection (2)	63:12,22;65:7;	others (3)	parameters (3)	period (1)
34:6;59:19	70:14;72:20;73:16;	32:12;57:2;63:21	20:11;27:11;77:18	58:10
observed (1)	80:10,16	out (15)	Parks (2)	periods (1)
11:15	only (10)	7:17;26:1;33:20;	6:5,10	26:8
obtain (3)	38:9,16,23;43:17;	35:2;47:20;48:7;	part (9)	permit (16)
22:13;60:2,3	50:21;51:15;52:11,	50:20;54:18;55:12;	26:17;39:20;	16:5;17:10;21:16;
occasional (1)	18;61:12;77:19	56:4,7;60:20;62:12;	40:21;41:11;42:20;	24:20;26:14,16;
55:25	on-the-ground (1)	69:3,17	46:21;77:4,17;78:3	39:24;40:2,3,9;45:6,
occasioned (1)	53:15	outfall (2)		16;46:1;50:24;51:2;
67:12	operate (4)	55:24;56:4	participate (1) 33:17	69:21
occur (3)	29:13;43:21;49:5;	outfalls (1)		permits (14)
28:2;66:15;75:7	60:18	30:13	participated (2)	17:17;24:22;
occurred (1)	operated (2)	outlawed (1)	48:24;58:6	30:17;31:4;38:20;
49:18	19:14;25:4	20:10	participating (1)	39:23;40:24;42:7;
O'Connor (1)	operational (1)	outlines (2)	54:10	45:13;47:7;65:19,
67:14	22:4	35:15:43:9	particular (2)	25;67:4;69:23
off (4)	operations (2)	outside (2)	20:14;77:17	permitted (2)
32:24;44:1;50:4;	19:8;23:23	34:10;52:12	particularly (1)	59:3,4
71:2	operators (1)	outstanding (1)	20:3	permittees (10)
office (6)	79:22	45:11	parties (1)	16:3,20;17:3,4,15;
	opinion (1)	over (17)	46:13	20:12;22:5;26:18;
3:9;4:21,22;5:4,	21:2		partnering (1)	
22,23 OFFICED (30)		4:2;16:19;27:5;	44:17	60:2,18
OFFICER (30)	opponent (1)	28:2;29:7,17;32:13;	partners (2)	permittees' (1)
3:5;11:25;18:4,21;	60:12	34:22;42:15;44:9;	47:15;58:7	17:9
23:6;28:5,11;32:18;	opponents (5)	46:23;54:14;55:5;	partnership (1)	permitting (8)
37:15,19,22;41:23;	10:14;37:23;	61:7,7;68:5;76:24	16:23	16:2;21:14;30:19,
46:7;48:11;53:23;	41:24;46:8;48:13	overcede (1)	party (2)	20;45:3,4;52:14;
57:12;60:11;61:20;	opportunity (6)	66:16	33:15;64:9	53:11
63:4,10,19,23;65:5;	16:22;23:4;53:20;	Overly (1)	passed (2)	person (11)
70:12;72:18;73:14,	72:1,16;74:18	47:6	13:24;33:14	3:8;7:11;10:3,12,
19,23;80:6,15	oppose (8)	oversee (1)	passionate (1)	14,16,18;18:12,23;
offices (1)	10:25;11:5;18:22;	48:17	71:5	54:10;80:17
7:22	28:25;29:21,22;	oversight (1)	path (4)	personal (1)
official (1)	30:24;70:14	67:6	44:13;45:17,23;	78:25
8:18	opposes (1)	over-specified (1)	48:6	persons (9)
officials (1)	19:22	24:25	pathway (2)	7:7,9,11,16;9:11,
48:23	opposing (3)	own (3)	22:13;72:9	20,21;10:1;18:22
often (3)	53:25;63:6,13	26:2;41:8;51:18	pause (3)	perspectives (1)
20:16;25:18;26:9	opposition (5)	oxygen (2)	29:2;62:24;72:2	55:21
Ohio (1)	23:17;65:8;72:21;	15:14;20:15	pausing (1)	pertaining (2)
15:23	73:20,25		72:10	3:19;11:18
oil (2)	option (2)		pay (2)	Petroleum (7)

47:22:57:15.19, 21:58:5:59:14.18 PFAS(1) 55:12 PFOS(1) 55:13 phenomenal (1) 33:7 phone (2) 12:10:55:25 phosphorous (15) 13:2;14:10;16:20; 20:1;22:6;24:6;25:9, 12:29:11:42:17: 43:1,2,17;57:6;75:3 **pike** (1) 55:14 pipe (1) 56:22 pipes (1) 55:13 place (5) 3:8;13:21;15:15; 21:12;34:13 placed (2) 7:15;9:21 places (1) 54:22 plan (13) 24:3,4,15:26:11; 31:17,19;39:25;40:6, 9;42:23;71:15;72:7, 10 planning (8) 23:12;26:7;28:12; 38:5;40:11,16;43:8; 57:25 plans (4) 21:22;24:8;35:23; 78:12 plant (16) 36:19:42:15; 43:15;44:2,5;49:3, 14,15;51:17;54:12; 55:24;56:8,11,18,23, 23 plants (9) 29:24,25;31:22, 23;32:1,2;52:5,15; 69:19 Plastics (2) 55:14,15 plate (1) 78:20 platform (1) 11:4play (1) 62:8 played (3) 58:22;59:10,13 Please (18) 7:24;10:22,24; 11:3,4,8;12:6,12;

18:24;19:1,3;32:22; 30:9 61:19:64:1:73:17: 74:4:80:13,18 plus (1) 15:9 10 pm (2) 9:15;80:19 47:4 PO (3) 7:4,21;9:13 23:2 podium (1) 19:2 5:24 point (13) 16:22;24:5,17; 34:6;39:18;46:12; 48:5;58:21;61:1; 17.470:22;71:3;75:18; 76:4 points (1) 78:22 poised (1) 44:8 6:15 Policy (2) 6:7;79:1 58:1 Political (1) 5:23 poll (1) 6:17 pollutant (1) 16:1 pollute (1) 10:7 60:23 polluters (5) 65:20:69:17.18, 21:71:18 pollution (5) 44:15;53:7;70:24; 79:18,18 pools (1)20:17poor(1)4:2 69:12 population (6) press (2) 15:13;38:21;76:7; 78:18;79:13,25 populations (1) 75:5 poses (1) 22:4 position (2) 11:6;74:2 possibility (1) 76:3 possibly (1) 39:6 postmark (1) 11:833:1 postmarked (2) 9:17;80:20 potential (7) 16:9;21:16:30:4; 31:8:40:23:41:19.20 potentialities (1) 55:12

pounds (1) power (4) 23:23;26:4;30:10, practicable (1) practical (1) Practices (1) precious (1) 29:16 preclude (1) predecessor (1) 46:16 preparation (1) 58:14 prepare (1) preparing (1) present (12) 7:5;10:20;11:2,7; 12:16;19:12;23:5; 43:13;54:4;55:20; 63:5:74:1 presentation (1) presented (2) 30:13:41:2 presenting (1) 39:21 presents (2) 16:22;41:15 Preserving (1) 48:21 preside (1) presiding (1) 11:25 12:10,11 pressure (2) 55:5,16 prevent (2) 75:2;77:23 preventing (1) 13:13 previous (1) 54:12 previously (4) 11:10,22;20:2,11 pride (1) primacy (5) 61:11;66:3,7,14,22 primary (2) 6:8;66:4 Prior (1) 12:12 prioritize (1)

16:20 prioritizing (1) 14:9priority (3) 12:25;27:12;77:16 private (6) 22:10,11;59:5; 60:3,4,9 pro (1) 74:14 proactively (2) 48:23:57:25 probably (6) 35:2;37:1;39:19; 54:23;57:4;64:21 problem (2) 75:6;79:24 problematic (1) 20:13 problems (4) 13:16:31:1:41:9; 69:24 procedural (1) 33:13 procedures (2) 14:22;45:21 proceedings (4) 3:1;7:9;10:2;81:2 process (6) 14:18:33:17: 43:16:77:10:79:1.19 produced (3) 25:19,20;76:5 producing (1) 45:9 production (1) 16:19 professional (1) 23:8 program (18) 3:21:4:13:11:20: 14:6,6;15:25;16:2, 17,21;17:2;35:17; 38:13;39:18;41:16; 44:15;48:25;61:17; 73:9 programs (1) 66:6 progress (1) 45:5 project (2) 51:2:52:2 projects (8) 44:18;50:18;51:3; 52:1,13;53:15;71:20, 22 promote (1) 18:19 promoting (4) 63:14:65:9:70:16; 72:22 promulgate (1) 67:4

promulgated (1) 67:1 property (1) 73:12 proponent (1) 59:15 proponents (4) 10:12;18:10,10,15 proportionately (1) 39:15 proposal (3) 3:22:6:17:26:18 propose (1) 61:18 proposed (46) 3:12;6:18;7:3; 8:11,21;9:2,8,25; 10:4,10,25;11:5,13, 13,17,23;19:12,20, 25;20:24;21:8,15; 22:20,24;24:4,19; 25:7,11,24;26:15,17, 19;27:4,16;35:10; 38:12;42:8,11;58:9, 11,24;59:19;63:13; 76:20,22;77:5 proposing (2) 14:20;53:7 protect (8) 13:10:17:8:22:15; 40:20;69:12;72:15; 76:11:79:17 protected (1) 77:13 protecting (7) 14:7;17:17;21:1; 29:16:35:1:40:15: 41:17 protection (2) 32:25:34:15 protective (2) 15:9:48:8 proud (1) 33:4 proudly (1) 19:14 proven (2) 21:23;60:7 provide (27) 10:10,19;12:20; 15:5,20:21:24; 26:21;33:24;37:20; 38:18;43:6;45:4,18, 25;50:22;53:24; 57:11,15;70:10; 72:8;73:17;74:1; 79:14;80:8,10,12,18 provided (8) 26:16;30:16,19; 33:22;50:24;57:10; 58:8:61:6 provides (6) 14:6;15:1;24:15;

Rules Hearlhag				June 10, 202
38:10;45:19;66:4		2000 com (5)	13:2	nominding (1)
		reasons (5)		reminding (1)
providing (5)	R	9:3;28:24,25;	reflect (2)	23:18
12:4;18:7;23:16;		29:21;75:1	14:24;18:5	removal (6)
28:12;66:9	raise (6)	receive (4)	refocus (1)	23:10;25:16;26:5;
provisions (2)	12:7,10;18:18;	7:12;9:22;56:15;	61:3	43:10;49:3;50:14
8:9;52:2	33:3;73:18;80:13	57:8	refusal (1)	remove (8)
Public (24)	raised (2)	received (1)	61:13	9:4;29:8,10;42:15,
5:2,2,4,7,13,20;	80:14,16	34:1	regarding (4)	16;43:2;51:3,5
6:25;21:2;22:10,14,	raises (1)	receiving (1)	6:14;9:23;11:13;	removed (1)
15;32:21;33:25;	20:20	31:5	38:8	51:16
43:7;45:18;46:18;	ramping (1)	recently (1)	Regents (1)	removes (1)
48:16;54:2;57:15;	41:9	34:1	5:3	24:13
58:8,10;60:10;66:5;	Rancher (1)	reclamation (2)	Region (2)	removing (4)
70:21	64:6	19:18;71:8	53:6;67:14	23:21;42:25;43:2;
published (2)	range (1)	recognize (3)	regions (1)	51:12
3:22;8:2	34:18	45:7;47:12;77:24	15:4	repairs (1)
purpose (2)	rate (2)	recognizes (1)	Register (2)	39:10
11:11;12:21	52:14;71:21	78:4	3:23;8:4	repeal (11)
purposes (3)	ratepayers (5)	recognizing (1)	registered (1)	3:18;6:14,23;9:2,
4:17;21:5;67:13		76:15	38:3	3,3,6;11:14,21;
pursuing (1)	35:25;39:16;	recommend (1)	regular (1)	59:17;67:10
17:4	43:24;51:22;52:8	37:10	70:9	repealed (4)
push (1)	rates (5)	recommendations (1)	regulating (2)	9:5;21:11;31:13,
36:1	36:6;55:8,8,9;	6:13	26:3;65:19	15
put (12)	71:10	recommending (1)	Regulation (1)	repealing (2)
29:23;31:22,25;	rather (6)	6:22	5:14	6:21;14:23
	24:7,10;25:1;			· · · · · · · · · · · · · · · · · · ·
32:4;36:24;39:23;	50:15;64:24;72:5	record (13)	regulations (5)	repeat (1)
40:24;45:8;46:24;	rationale (2)	3:7;8:16,18,25;	17:24;22:8;55:11;	54:4
47:13;62:25;64:9	8:13,22	17:21;18:5,7,8;28:6;	66:2,20	replace (1)
puts (2)	rationales (3)	45:18;58:2,19;71:2	regulatory (1)	66:24
69:3;73:6	8:12,15,24	recorded (1)	21:4	reporter (6)
putting (1)	reached (1)	3:10	reinstates (2)	42:9;53:13;63:16;
29:2	61:1	recreation (8)	20:9;22:20	65:12;70:18;72:24
	reacted (1)	13:6;15:19;21:1;	reiterate (1)	represent (3)
Q	60:22	27:17;34:15;35:1;	73:3	27:22;55:3;70:22
	read (5)	68:13,14	related (2)	representative (4)
Quality (58)	4:5;8:15,24;17:22;	recreational (1)	14:2,22	10:9;12:15;28:18;
4:1,10,12;6:3,4,8,	38:9	27:2	relates (1)	38:1
9;7:20;9:12;12:19,	ready (2)	redesign (1)	62:1	representing (5)
20;13:1,7,8,12,23;	47:18;48:5	75:17	relationship (1)	28:19;42:1;46:11;
14:8;17:9,12,18;	real (2)	reduce (3)	74:8	61:22;73:1
19:13;21:10;22:14;	55:23;63:1	50:19;53:7;69:9	relative (1)	represents (2)
28:16,23;29:5;30:3,	reality (1)	reduced (2)	48:2	57:19;77:13
12;31:9;33:1,6;42:6;		20:17;57:5	relayed (1)	request (6)
43:23;44:9,10,12,20,	22:3	reducing (4)	54:14	6:15;7:19,22,23;
22;45:5;48:9,21;	realize (2)	16:6,15;44:14;	relevant (2)	29:2;72:2
50:18;51:9;53:16;	56:5,6	52:24	11:12,16	requested (1)
54:9,17,20,22,24;	real-life (1)	reduction (5)	reliance (1)	10:1
57:16;67:16;69:11,	36:14	16:21;48:25;	21:21	requesting (1)
11,16;70:5;71:6;	really (22)	71:20,22;75:13	relief (1)	34:5
72:4,12	24:10;34:18,23;	reductions (3)	21:24	requests (1)
	35:11,14,25;36:23;	16:24;43:17;76:6	relies (1)	24:2
quantity (1)	37:10;38:9,18;			
6:8 aviat (1)	40:16;41:11,21;	redundant (1)	62:3	require (4)
quick (1)	46:20;47:2;58:16;	9:8 Deciderer (1)	rely (2)	4:5;42:24;43:18;
55:23	59:23;64:14;67:17,	Reeders (1)	53:11;78:23	45:11
quite (1)	18;69:14;70:8	65:14	remain (2)	required (11)
78:15	reason (2)	reevaluated (2)	20:1;52:18	8:6,8;9:24;13:25;
quitting (1)	29:22;56:2	49:7,25	remained (1)	20:18;30:6;40:2;
32:11	reasonable (5)	reference (1)	13:21	52:3;53:2;77:8;
quote (1)	31:7;40:22;45:4;	77:1	remains (3)	79:10
36:20	50:16;65:1	references (1)	17:14,17;22:12	requirement (1)
	reasonably (1)	14:1	remarks (1)	7:6
	14:8	referring (1)	59:12	requirements (7)
	11.0	U • • •		

Rules Hearmag			1	Sunc 10, 2024
14:19,22;17:11;	Retirement (1)	19:15	60:17;61:8;67:8,9,	68:20
23:2;50:24;66:25;	5:20	Rule (51)	12;72:3,6	sentence (1)
68:22	return (4)	3:12,13;4:4,6,8,10,	scale (5)	37:4
requires (5)	40:19;56:13;57:3,	13;6:15,18,21,22,23;	39:12;44:6,17,21;	septic (4)
25:17;26:7;67:19,	40.19,50.15,57.5,	8:21;9:5,7;15:1;	45:25	32:4;51:12,19;
	returned (1)		schedules (2)	52:17
21;78:20	61:9	16:2;17:8,23;19:20; 22:20,24;24:4,19;		septics (4)
requiring (1) 24:16	returning (2)		16:18;21:22	
		25:22,22;26:15;	scheme (1) 21:12	35:8;36:10;44:16;
research (1)	29:19;56:15	28:25;29:2,22;30:13,	-	51:16
74:25	Revenue (3)	18,21,25;31:5,6,10,	science (6)	serve (3)
reservoirs (2)	5:15,16;71:21	14,24;34:7;35:19;	15:11;28:24;66:6;	38:20,22;61:10
76:12,13	Review (4)	37:5;41:11;42:11;	76:23,24;79:19	Service (3)
reset (1)	4:6,10,13;45:20	45:20,22;49:4;	scientific (1)	5:13;51:17;76:17
78:1	Review's (1)	53:25;60:6;71:16;	74:25	Services (3)
resident (2)	7:16	73:20	scientists (1)	5:7,8;36:4
65:17;71:11	revised (1)	rulemaking (24)	29:13	session (3)
residential (1)	35:11	3:11;7:8,13,25;	Scott (2)	6:20;9:6;47:5
44:16	revising (2)	8:1;9:20,23,25;10:2,	72:22,25	set (5)
residents (1)	21:6;78:14	11;12:22;14:18;	second (2)	3:11;13:10;39:22;
44:23	revision (1)	16:12;18:11,12,15,	39:20;49:2	41:8;45:15
residuals (1)	21:11	23;26:20;57:17;	Secondly (2)	sets (3)
25:14	revisions (1)	58:10,11;61:19;	33:19,21	8:10,20;9:1
resolution (1)	67:11	66:23;70:15	seconds (1)	setting (1)
6:22	Revocation (1)	Rules (52)	58:20	53:10
resolve (2)	66:14	4:4;7:3;8:7,11,15,	Secretary (2)	settings (1)
79:14,16	Right (21)	16;9:2,9;10:25;11:6,	5:22;8:6	60:8
Resources (11)	31:13;32:6,14,15,	13,15,18,21;14:2,5,	Section (8)	setup (1)
6:6,11;26:9;47:16,	15;33:9;34:2;36:22;	15,19,21,24;20:24;	4:3;66:3,8;77:16,	41:14
23;60:25;61:23;	37:7,20;38:9;40:3,7;	21:15;26:17;32:6;	17;78:1,1,4	seven (1)
78:12,16,20;79:11	48:4;59:6;62:21;	35:22;45:11,14;47:3,	Sections (1)	16:11
respect (1)	64:4,12;80:16,21,22	6;48:2,8;49:10;	78:13	several (7)
43:3	Rika (1)	52:11,13,21,24;	sector (4)	17:20;19:19;
respectfully (1)	37:25	58:24;59:19;60:16;	59:5;60:3,4,9	28:20;35:20;45:10;
72:2	riparian (1)	61:4,8,10,18;62:6,	Seeing (6)	57:20,20
respond (1)	50:20	10,24;63:6,13;74:11,	18:14,20,21;	severe (1)
41:5	rises (1)	13,21;77:5	73:21;80:14,15	22:4
response (16)	59:18	running (1)	seek (1)	sewage (1)
14:11;15:9,11;	risk (5)	79:4	26:11	79:6
20:5,13;26:20,24;	20:6,12;22:4;	runs (1)	seems (1)	sewer (4)
27:3,19,22;31:11;	50:25;52:8	71:7	77:18	44:17;71:10,21;
34:24;75:4;76:9,25;	risks (1)	rural (1)	sees (1)	76:17
78:7	21:25	79:7	20:16	shame (2)
responses (3)	river (22)	G	segment (1)	69:6,7
15:16;27:9;76:8	13:18;15:16,21;	S	49:1	Shannon (2)
responsibility (2)	29:12,20;35:4;42:6;		segments (1)	70:16,20
66:5;73:6	49:1,7;50:21;51:9;	safe (2)	13:19	S-h-a-n-n-o-n (1)
responsible (1)	52:6;54:19;56:3,9,	50:25;52:1	selected (2)	70:20
51:7	10,13;71:7;76:5,8,	safely (1)	27:2,19	share (1)
rest (2)	11,12	29:19	Senate (16)	58:19
12:24;47:14	rivers (7)	safety (1)	9:5;13:25;14:20;	sharpen (1)
restore (1)	13:4;15:5;27:17;	19:18	17:11;19:24;24:2,	62:25
79:17	32:14;35:6;50:19;	Sage (1)	11;31:13;33:14;	Shawn (1)
restoring (2)	76:14	58:4	47:5;58:12,17;59:7,	41:25
44:18;77:3	RO (1)	same (1)	8,16;64:7	sheets (1)
result (3)	49:20	25:25	senator (2)	10:23
25:2;42:12;59:2	robust (1)	sanitation (1)	58:13;64:7	short (1)
resulted (1)	60:17	55:8	send (2)	25:3
71:9	rock (2)	satisfy (1)	7:1;9:24	shortage (1)
resulting (4)	15:14;34:20	50:23	sense (2)	75:23
22:1;43:16;50:1;	room (6)	Savage (1)	40:6;50:11	show (1)
60:4	10:24;12:3;37:23;	19:16	sensitive (1)	3:7
results (2)	62:22;73:24;74:1	SB (10)	76:13	showing (1)
76:6,19	Rosebud (1)	42:4;44:12;45:1;	sent (1)	51:19
	1	1	1	1

Rules Hearmag	1			5une 10, 2024
shows (1)	source (8)	19:13,18,21,23,25;	24:12;43:15;63:11	successfully (1)
49:14	16:22;24:17;	20:2,5,6,10,13;21:1,	steps (2)	57:24
sides (1)	46:12;51:7;69:19;	8;22:1,3,6,9,15,18,	35:16;53:7	suffering (2)
62:18	70:23;71:3,18	20;23:1;25:8,12,24;	stewards (1)	79:13,15
signed (1)	sources (10)	27:5;30:12;35:16;	29:16	sufficient (2)
19:1	16:25;24:5;40:12;	37:8;39:5;40:24;	stewardship (1)	45:12;46:1
significant (8)	41:19;51:4;57:5;	41:6;42:8;44:9;50:6;	33:2	suggest (1)
22:7;35:3,22;	70:4;73:8;78:6,8	52:5,17;53:8,10;	still (8)	27:24
42:14;47:15;51:14;	South (1)	58:25;59:17;61:10,	30:14;31:14;44:1;	suggested (1)
56:24;62:11	25:20	11,14;62:7,8;65:19,	48:25;62:8;64:12;	60:22
significantly (3)	speak (12)	22;66:11,13,24;67:1,	76:3,22	summarize (2)
19:16;52:22;71:23	12:8,9;13:1;18:19;	3,24;68:6;69:9;	stop (3)	8:8;47:2
sign-up (1)	31:1;34:4;59:16;	74:22,23,24;75:20;	32:22;39:4;69:18	summary (1)
10:23	63:15;65:11;70:18;	76:5,21,22;77:19	stormwater (1)	57:10
similar (1)	71:1;72:24	standpoint (2)	48:18	superintendent (1)
79:15	speaking (4)	46:25;47:1	story (3)	28:16
simply (2)	28:17;63:9;74:7,	star-6 (1)	42:13;55:23;78:25	supplemental (1)
39:16;43:3	10	12:11	strain (1)	25:17
single (9)	specialist (1)	star-9 (1)	78:12	supplemented (1)
26:22,25;27:3,18,	54:9	12:10	strategically (1)	13:20
21,24;28:1,3;34:15	specific (3)	stark (1)	44:14	supplies (2)
Site-specific (3)	45:19;60:20;74:20	56:9	stream (5)	68:12,15
27:20;77:7;78:11	specifically (3)	start (4)	15:16,21;40:14,	support (17)
sitting (1)	62:1,5;73:4	23:18;32:22;	18;50:7	10:25;11:5;13:4,
55:12	specificity (1)	56:20;69:22	streams (21)	10;19:10;22:3;
Sixth (2)	27:7	started (2)	13:4,18;15:5;	27:15;30:21;31:5,9;
7:20;9:13	spell (5)	33:14;65:23	20:16;27:23;35:6;	39:16;42:11;45:22;
skyrocketing (1)	63:15;64:2;65:10;	starts (1)	40:13;44:19;68:18;	65:18,18;68:21;
52:25	70:17;72:23	52:20	69:1,13;74:10;	74:11
slow (1)	spend (1)	State (45)	76:14;77:2,3,6,7,12,	supported (2)
37:5	40:8	4:21;5:1,5,18,22;	16;79:17,25	15:19;68:20
slowly (3)	spending (3)	7:6;13:3,8,12;16:7;	street (1)	supporting (2)
40:18;63:16;65:11	30:8;55:22;73:11	17:5;19:3;23:9,12;	55:9	20:8;46:23
small (14)	spent (6)	27:6;29:5;38:3;	strict (1)	supportive (1)
38:1,4,17,23;39:2,	29:5,7,9;36:25;	47:23;50:7;57:24;	41:5	42:2
2,13,19;59:4,24;	60:24;64:23	58:2,13;59:4;61:4,	stringent (2)	supports (2)
64:20;69:4;79:4,5	spill (1)	22;63:15;64:1;	17:23;66:21	68:23;72:13
smaller (1)	56:2	65:10;66:4,15,19,22;	strong (1)	suppose (1)
59:23	sponsor (2)	67:2,21;68:4,5,20,	32:25	68:21
Society (1)	59:8,11	22;69:2,22;70:17;	strongly (1)	sure (4)
5:5	sponsored (1)	71:10;72:23;74:4;	22:23	64:21;68:10;69:9;
solid (2)	58:13	75:23	structure (1)	71:20
25:14;58:1	sprawl (1)	stated (4)	24:22	surely (2)
solution (3)	36:10	31:21;41:20;67:7;	sub (3)	40:18;78:12
37:12;42:5;44:22	squared (2)	80:23	4:3;9:24,24	surface (5)
solutions (5)	34:16,20	statement (12)	subject (6)	13:3,12;16:1;28:2;
21:24;41:22;44:6,	staff (5)	6:16;10:10;12:1,	7:10;12:22;14:15;	38:19
8;58:3	29:17;47:13;49:4;	16,21;17:22;18:2;	42:23;52:16;74:18	surge (1)
somehow (1)	78:16,20	38:9,15;62:2,3;63:2	subjective (1)	76:7
79:11	stakeholders (3)	statements (3)	21:2	surveys (1)
sometimes (1)	23:24;27:13;71:16	7:1;8:16;10:15	subjects (2)	21:2
67:20	stand (1)	state-of-the-art (1)	7:10,13	suspend (2)
soon (1)	50:25	21:17	submit (4)	22:24;61:19
29:10	standard (15)	states (5)	9:11;10:18;17:20;	swayed (1)
sooner (1)	13:12,13,15;20:20,	15:22;51:3;53:6;	80:18	34:5
64:24	25;27:1;30:11;31:9;	54:21;68:8	submitting (3)	system (8)
Sorry (4)	34:14;44:12,21;	State's (3)	19:9;45:17;46:22	23:22;43:10;
28:10;34:12;	45:14;57:17;59:6;	8:7;19:17;66:17	substantial (3)	52:18;53:9,11,18;
39:23;64:3	67:5	statewide (2)	21:18,25;22:16	56:24;66:17
sort (2)	standards (75)	27:24;42:21	substantially (1)	systems (9)
74:19;78:22	3:20;11:19;13:7,	statutes (1)	25:13	26:6;38:2;50:12;
sorts (1)	18,19,21;14:2,3,23;	33:18	substitute (1)	51:13,19;52:17,19;
50:22	15:2,7;16:10,11;	step (3)	67:3	66:5;77:12
	L	l	1	L

				,
	43:2;76:8	today (45)	5:25;6:1	20:1
Т	tertiary (1)	4:2;7:5,14,18;	traveling (1)	under (16)
1	52:4	8:19,25;9:16;10:7,	54:21	8:5;17:5;20:15;
table (1)	testify (16)	19;11:9,24;12:1,5,	Treasure (2)	21:15;23:21;26:15;
table (1) 57:23	18:12,16,23;19:2;	12,22;14:19;18:13,	47:23;61:22	38:12,22;44:11,15;
	37:23;41:24;46:8;	16,23;23:16;28:13,	treat (4)	45:4,13,20;49:5;
taint (1)	48:14;60:12;63:6,	20,22;37:24;41:24;	30:6,11;71:12;	55:4;60:18
33:5	12;65:7;72:16,20;	46:9;48:13;57:11,14,	79:8	understandable (1)
takings (1)	73:25;74:3	18;58:8,15;59:17;	treated (1)	79:20
17:25	testifying (2)	60:8;63:5;64:11,14;	75:22	undesirable (1)
talk (4)	23:17;28:8	65:16;66:10,18;	treatment (40)	13:14
28:22,24;29:3;	testimonies (1)	74:11;76:21;80:19,	21:17;23:10;24:6;	undue (1)
34:10	71:3	20,25	25:5;26:6;29:8,18,	23:3
talked (2)	testimony (21)	today's (3)	24,25;31:22,23;32:1,	unexplained (1)
43:25;68:11	3:2;10:7,11,13,18,	9:18;14:16;16:12	2;35:23;39:10,14;	20:22
talking (5)	21;11:2,8,16;12:4,4,	Together (3)	41:22;42:14;43:1,15,	unfortunately (2)
35:1,18,18;36:18;	12;23:16,18;28:13;	17:8;37:7,11	16;44:2,5;46:4,5;	31:24;59:18
66:1	33:9;53:25;64:11,	told (3)	51:20;52:5,19,23;	United (1)
talks (1)	15;74:1;80:25	30:18;49:4,24		54:21
62:6			54:12;56:11,18,22,	
tanker (1)	Thanks (5) 48:10;53:21;54:3;	took (1) 68:24	23;69:19;76:10,17; 79:10,14,21	unjustified (1)
25:21	48:10;53:21;54:3; 57:9,11		79:10,14,21 tributary (1)	21:11
tanks (2)		tool(2)		unknowns (1) 52:7
32:4;51:12	Therefore (5)	41:5;58:25	44:19	
target (3)	22:17;26:13;35:7;	toolbox (1)	troubled (1)	unmute (3)
75:10,12,16	62:9;73:9	41:5	21:6	12:9,11;63:18
targets (2)	Third (1)	topic (1)	trucks (1)	unnecessarily (1)
75:9;77:22	76:4	38:8	25:21	20:6
task (1)	Thirdly (1)	total (11)	true (2)	unnecessary (2)
54:11	31:16	13:2,2;19:25;20:1;	34:1;61:17	9:8;25:5
Tax (1)	though (1)	21:7;22:6,6;25:8,8,	truly (1)	unrealistic (1)
5:16	31:15	12,12	23:1	20:18
taxpayer (1)	thoughtfully (1) 78:4	touch (1)	trust (1)	unregulated (1)
61:2		33:12	30:18	20:11
team (1)	thousand (1)	tough (1)	try (1)	unresolved (1)
29:13	57:20	79:24	75:7	47:17
technical (7)	three (3)	toward (1)	trying (4)	unsettled (1)
21:19;27:15;34:9;	21:8;28:22;49:25	40:2	53:9;62:19;77:24;	62:4
45:19;46:25;77:10;	three-quarters (1)	town (2)	79:2	unsuitable (1)
78:22	38:20	79:5,7	turn (3)	21:4
technicality (1)	thresholds (2)	towns (11)	75:7,14,15	untenable (1)
20:8	14:12;15:10	23:19;28:10;29:6;	two (8)	47:8
technically (2)	throughout (2)	30:22;42:19;47:24;	14:21;30:3;31:11;	unusable (1)
24:24;52:16	16:24;58:9	59:23;60:15,24;	35:3;46:15;55:7;	79:6
techniques (1)	thus (1)	64:20,20	75:1,9	unworkable (1)
27:11	50:6	toxins (1)	type (1)	26:18
technologically (1)	till (1)	25:1	61:18	up (20)
41:7	63:11	track (2)	typed-up (1)	19:1;32:3;34:1;
technologies (2)	timeframe (1)	58:1;64:12	80:2	35:19;39:22;46:21;
21:18;78:19	25:3	tracking (1)		48:6,7;50:5;53:10,
technology (11)	timeframes (1)	46:14	U	12;54:17;55:10;
22:2;24:18;25:11;	41:9	transition (1)		62:1,20;64:5,24;
30:8,11,15;43:9;	timely (2)	14:25	ultimately (3)	75:22;78:25;79:3
46:4;60:7;75:19;	78:17;79:2	translated (1)	16:12;22:1;40:20	update (3)
76:1	times (2)	47:7	unachievable (6)	9:4;78:16,20
Telecommunications (1)	35:20;51:19	translates (1)	20:2,9;43:3;52:17;	upgrade (3)
5:12	title (1)	59:1	53:10,18	29:7;40:14;44:2
tells (1)	59:17	translation (3)	unanswered (1)	upgrades (2)
69:4	TMDL (4)	3:19;11:18;19:21	47:17	17:1;36:19
temporary (1)	21:10;48:25;49:6,	translator (3)	uncertain (1)	upheld (1)
21:24	7	15:3,8;58:25	27:23	22:13
tens (2)	TMDLs (5)	translators (3)	uncertainty (2)	upholding (1)
49:23;50:4	21:7;78:14,14,15,	15:2,5,15	21:15;60:6	19:17
,	21	Transportation (2)	unchanged (1)	upon (1)
terms (2)	21	11 anspot(a + 0)	unenangea (1)	upon (1)

Transcript of Public Hearing June 10, 2024

Kules Hearmag				June 10, 2024
12:9	19:22;24:7;26:23;	48:24	25:6;27:13;29:17	withdraw (2)
upstream (6)	27:3,22,24;51:10	+0.24	watershed's (1)	37:6,11
51:4;56:12;65:20;	variability (2)	W	72:9	within (1)
69:20;71:16;79:5	27:8,10	•••	watershed-wide (1)	16:1
urban (2)	variable (4)	wadable (1)	41:18	without (6)
36:9;79:7	14:11;20:13;	13:18	WATSON (4)	22:21;23:3;31:5;
urges (1)	27:19,21	wait (3)	63:9;74:6,6;80:7	42:22;75:2;77:21
22:23	variables (12)	63:10;64:13;75:4	way (6)	witnesses (1)
use (14)	15:9,11;20:5;	walking (1)	25:16;26:14,15;	12:1
12:6;25:14,14;	26:21,24;27:3;	54:18	61:17;64:22,25	women (1)
27:2,15,25;66:19;	31:11;34:24;75:3,4;	wants (2)	ways (1)	57:21
68:3,8,11;71:20;	76:9;77:1	44:25;51:22	62:20	wondering (1)
75:24;76:18;77:8	variance (6)	wastewater (25)	weakening (1)	77:25
used (6)	49:24;50:1;53:19;	23:10;29:19,25;	79:14	woods (1)
13:15,22;16:18;	60:2,3,9	31:23;32:2;35:23;	wealth (1)	49:9
27:11;60:23;67:12	variances (10)	38:6;42:14;44:5;	57:22	WOOLEY (4)
useful (1)	21:22;22:9,12,14;	46:4;48:18;50:5;	website (1)	19:4,4,7,7
17:16	41:4,8,11;53:12;	51:20;52:15,19,23;	10:5	word (3)
user (1)	68:6;69:23	55:24;56:8,22;	welcome (1)	37:4;51:23,25
35:4	variety (1)	71:12;75:9,11;	6:24	worded (1)
users (3)	48:1	76:16;79:8,21	welfare (1)	39:21
67:25;68:2,8	vast (1)	watching (1)	22:15	wording (1)
uses (10)	57:6	59:25	wells (1)	80:4
13:5,9,11;15:19;	Vehicle (1)	Water (103)	32:4	words (3)
17:18;20:9;38:14;	6:1	6:7,9;12:19,25;	western (1)	46:19;55:15;59:1
40:15,19;41:17	venture (1)	13:3,7,8,11,23;14:8,	27:6	Work (33)
using (9)	49:21	9;16:1;17:8,12,13,	Westmoreland (3)	14:4,14,17;28:19;
15:10;24:25;	Vermont (1)	17;19:13;20:7;	19:9,14;22:23	32:12,13;37:7,11;
25:17,19;72:9;	15:23	21:10;22:14,19;	wetlands (1)	38:2;39:12;40:2,5;
76:24;77:20;79:18;	Version (3)	28:16,23;29:5,24;	44:19	41:14;42:5;44:25;
80:4	20:20;78:23;80:2	30:3,12;31:9,22;	what's (8)	45:1,3,9,24;48:5;
Utah (1)	Veterans' (1)	32:1,25;33:5;38:19;	32:14,14,15;41:2;	53:21;54:10;58:3;
15:23	5:18	42:5,6;43:14,23;	55:18,19;57:8;68:17	59:22;70:7,23;
utilities (6)	via (2)	44:8,10,12,20,22;	whereas (1)	72:11;73:2;74:17;
29:23;31:17;32:8;	3:10;11:1	45:5;48:9,17,21;	35:4	78:19;79:22,24,25
36:6;42:1;48:18	viable (2)	50:7,18;51:9;52:14;	whole (2)	workable (6)
utility (4)	52:18;72:9	53:16;54:9,12,17,20,	64:10;65:21	31:16;35:13;
31:18,25;43:24; 55:8	Vicki (1) 74:6	22,23,25;55:17,19;	who's (1) 70:9	37:12;41:14,15;48:8 worked (4)
	viewpoint (1)	56:7,11,11,12,15,17, 22,23;57:7,16;60:20,	whose (1)	23:11,13;61:14;
V	54:4	21,21;65:1;66:3,5,	7:11	74:8
• 	views (5)	12,17,20,21;67:13,	wide (2)	working (9)
vacuum (1)	9:11;10:20,20;	14;68:8,10,12,15;	48:1;52:10	14:13;17:14;38:4;
55:1	11:2;35:4	69:7,11,15,15,19;	widespread (1)	39:6;42:22;46:15;
vague (2)	Village (1)	70:2,4,4,5,24;71:6,8;	22:16	48:19;58:2;74:16
47:6;77:20	65:14	75:23,24;77:6;78:7;	Wildlife (3)	workload (1)
vain (1)	VINCENT (3)	79:10	6:5,10;69:2	77:14
52:1	46:10,10;48:12	waters (11)	willing (1)	works (4)
valid (1)	V-i-n-c-e-n-t (1)	13:8,9,12,23;16:7;	50:21	32:21;48:16;54:2;
13:5	46:11	28:2;51:14;60:23;	willingness (1)	70:21
validation (1)	virtually (2)	61:1;69:1,13	79:23	world (1)
20:21	3:10;12:6	watershed (17)	wish (16)	54:21
validity (1)	visitors (1)	14:7;16:24;27:9,	10:19,20;11:1,7;	worrying (1)
45:20	44:24	20;33:3;44:6,17;	18:12,16,23;37:23;	59:25
valley (1)	vital (1)	45:25;46:2;50:17;	41:24;46:8;48:13;	worth (4)
33:3	24:21	51:8;57:4;61:4,16;	53:24;60:12;65:7;	43:13;55:19,19;
valuable (1)	VNR (1)	72:13,15;78:5	70:14;72:20	60:1
55:18	51:17	watershed-focused (1)	wishes (9)	WPIC (3)
value (3)	VNRP (2)	44:21	18:15;63:5,12;	34:3,5;64:8
27:18;28:1,3	48:25;49:2	watershed-level (1)	73:17,25;74:3;80:8,	wrapped (1)
valued (1)	voluntarily (1)	78:11	10,17	64:24
48:22	37:6	watersheds (6)	wishing (1)	write (2)
values (7)	voluntary (1)	16:15;23:21,25;	10:15	10:22;11:3
	1			

	24.20	70.15.10	
writing (3)	34:20	78:15,18	
10:22;26:17;46:1 written (14)	14-day (1) 20:18	2007 (1) 16:11	5
7:1,18;9:11;10:17;	15 (4)	200901 (2)	F (1)
11:8;30:17;31:4,20;	11:24;31:20;	7:21;9:13	5 (1)
37:18;42:8;45:13;	35:10;45:8	2014 (3)	9:1
78:23;80:18,21	150 (1)	13:17;37:8;67:1	5,000 (1) 71:12
	34:16	2017 (1)	5:00 (2)
Y	1520 (2)	71:9	9:15;80:19
	7:20;9:13	201706 (1)	50 (4)
year (4)	155 (1)	7:4	29:17;32:13;37:1;
23:24,24;55:7;	34:21	2019 (2)	49:17
68:14	17.30.1304 (1)	38:25;49:13	500 (1)
years (16)	3:17	2021 (7)	38:23
16:11;19:15;21:9;	17.30.1388 (2)	9:6;13:24;14:15;	59620 (1)
23:11;38:4;46:16;	3:18;9:7	26:2;33:13;58:14,15	7:21
49:7,25;54:15,20;	17.30.201 (1)	2022 (3)	59620-0901 (1)
55:6,7;75:20;76:24; 78:15,18	3:13 17.30.507 (1)	43:11;54:16;67:10 2024 (6)	9:14
78:15,18 years' (1)	3:14	3:8,24;8:3,3;9:16;	59620-1706 (1)
48:19	17.30.516 (1)	5.8,24,8.5,5,9.10, 11:9	7:4
Yellowstone (3)	3:14	20-year (1)	6
29:12,20;71:6	17.30.602 (1)	43:13	U
Yep (1)	3:14	21 (1)	6.0 (1)
28:10	17.30.619 (1)	47:5	77:17
yesterday (1)	3:14	24/7 (1)	//.1/
43:25	17.30.622 (1)	29:14	7
	3:15	2-4-302 (2)	-
Z	17.30.623 (1)	4:3;9:24	7 (3)
	3:15	25 (1)	4:3;9:10,24
Zoom (4)	17.30.624 (1) 3:15	23:11 26 (2)	70 (1)
3:10;11:1,4;12:7	17.30.625 (1)	3:24;8:3	38:18
1	3:15	28 (1)	75-5-321 (2)
	17.30.626 (1)	54:20	17:11;19:24 794 (2)
1 (2)	3:16		3:24;8:4
70:22;77:4	17.30.627 (1)	3	5.24,0.4
1,000 (1)	3:16		8
38:21	17.30.628 (1)	3 (3)	
1.1 (2)	3:16	8:10;20:20;65:14	8 (3)
35:10;39:22	17.30.629 (1)	3.3 (1)	8:4;53:6;67:14
1.3.311 (1)	3:16	78:1	8,000 (1)
8:6 10 (7)	17.30.635 (1) 3:17	358 (25) 9:5;13:25;14:20;	75:20
10 (7) 3:7;9:16;11:9;	17.30.660 (2)	17:11;19:24;24:2,	8.0 (1)
12:5;67:10;78:15,17	3:18;9:4	11;31:13;33:14;	78:13
10:01 (1)	17.30.702 (1)	42:4;44:12;45:1;	8.1 (1)
3:7	3:17	47:5;58:12,17;59:7,	78:13 80 (1)
100 (1)	17.30.715 (1)	9,16;60:17;61:8;	50:13
54:6	3:17	67:8,9,12;72:3,6	817 (1)
11:49 (1)	17-434 (6)	365 (1)	3:24
81:2	3:24;8:5;12:23;	29:14	
12-A (2)	19:14;22:25;23:17	Λ	9
62:7,8	18(2)	4	
1300 (1)	38:4;48:19	4 (1)	9 (2)
30:9 1-3-311 (1)	1970s (1) 13:13	4 (1) 8:20	9:19;64:7
4:5	1972 (1)	400 (1)	90 (3)
4.3 1413 (1)	79:10	46:23	29:10;42:16;50:14
66:3		406 (2)	95 (2) 29:11;42:17
14-3 (1)	2	7:22;9:14	99 (1)
66:8		444-4386 (2)	42:25
145 (1)	20 (2)	7:23;9:14	