

**Analysis of Public Comments Received on the
Millennium Bulk Terminals—Longview Project
Draft Health Impact Assessment**

Comment Excerpt-by-Issue Report

February 2, 2018

**Prepared by
ICF
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Introduction

On December 20, 2017, Cowlitz County, in collaboration with the Washington State Department of Health, published a Draft Health Impact Assessment (HIA) for the Millennium Bulk Terminals—Longview project. Public comments on the Draft HIA were accepted through January 5, 2018.

Through January 5, 2018, Cowlitz County received two types of public comment submissions, which were separated into two batches: Batch 1 included a total of 103 individual public comment submissions, and Batch 2 included approximately 3,000 form letters. ICF's analysis of Batch 1 was submitted to Cowlitz County on January 11, 2018. This draft Excerpt-by-Issue Report reflects ICF's analysis of Batch 1 and Batch 2 combined, which includes all public comment submissions received during the HIA's public comment period. Of the 3,032 comment submissions, 413 have been identified as unique (82 substantive, 331 relatively non-substantive), 2,618 were part of a form letter campaign, and one was found to be a duplicate.

ICF's process for analyzing public comments builds upon our commercial web-based CommentWorks[®] software product. As a first step, we downloaded and processed electronic copies of the comment submissions from Cowlitz County, then imported these data into CommentWorks[®]. A hierarchical coding structure was developed with Cowlitz County which included key issues addressed by the commenters as well as categories identified in the Draft HIA. ICF staff reviewed the comment letters, identified the substantive excerpts within each submission ("bracketing"), and used the issue outline to associate each excerpt with the issue(s) to which it applies ("coding"). The end product of the bracketing and coding analysis is this "Comment Excerpt-by-Issue Report," a report generated in CommentWorks[®] that includes the *verbatim text* of substantive comment excerpts sorted by issue.

A note about the material presented in this report:

Please keep in mind that this report includes verbatim comment excerpts as written by the commenters. The purpose of presenting this material in its verbatim form is to preserve the exact words of the commenter as they relate to each issue.

Issue Outline

The table below lists the key issues that were used to develop the coding structure categories. In addition, the table indicates how many submissions addressed each coding structure category. The column titled “Count of Unique Submissions” provides counts of how many unique submissions (including one representative or “master” version of each form letter variety) addressed a category, while the column titled “Count of All Submissions including Form Letter Copies” includes all letters analyzed (including form letter copies). Counts listed for a “parent” issue reflect comments that addressed the parent issue generally but that could not be assigned into a more specific sub-issue (i.e., counts do not “roll up” to the parent issues).

Issue Number	Issue Title	Count of Unique Submissions	Count of All Submissions including Form Letter Copies
1	General Comments	287	3,014
2	Air Quality	23	23
2.1	Coal dust	70	3,008
2.2	Exhaust and emissions from trains ships and vehicles	9	9
2.3	Air pollution impacts to neighborhoods and communities	5	5
2.4	Carbon emissions from use of coal	46	3,001
3	Economics	7	7
3.1	Social determinates of health (defined and summarized on page 12)	9	1,659
3.2	Employment	5	5
3.3	Alternative site uses	0	0
3.4	Impacts to other aspects (tourism, service economy, river economy) of local economy	4	4
3.5	Effect on taxes and impact on health	0	0
3.6	Accountability if MBTL leaves or files for bankruptcy	1	1
4	Community Health	91	3,010
4.1	Health impacts from climate change in Cowlitz	16	2,857
4.2	Emergency response impacts	14	2,993
4.3	Impact on recreation and active transportation (walking, biking, taking the bus)	3	3
5	Personal Health	10	10
5.1	Health effects of noise and vibration	24	2,996
5.2	Contamination of fish in food chain	14	2,993

Issue Number	Issue Title	Count of Unique Submissions	Count of All Submissions including Form Letter Copies
5.3	Health impacts of topper agents (surfactant)	8	1,473
5.4	Water quality	15	15
5.5	Impact to food grown on farmland or residential gardens	10	10
6	Comparison to Newcastle/other communities	9	1,333
7	Cowlitz County general health population characteristics	7	1,471
8	Issues with the HIA (limited scope of analysis, analysis omissions, recommendations to improve analysis)	36	3,000
9	Other	1	1

Index of Comment Submissions Sorted by Submission Number

Submission Number	Commenter
MBTL-HIA-00002	Darvel Lloyd
MBTL-HIA-00004	trace farrell
MBTL-HIA-00005	Amy Harlib
MBTL-HIA-00006	Melvin Mackey
MBTL-HIA-00008	Jim Steitz
MBTL-HIA-00009	Julie Glover
MBTL-HIA-00010	Keara Berlin
MBTL-HIA-00011	Nancy Pape
MBTL-HIA-00012	Michelle Sheldon
MBTL-HIA-00013	William Leighty
MBTL-HIA-00014	Scott Granlund
MBTL-HIA-00015	Spencer Boudreau
MBTL-HIA-00016	Mary Deaton
MBTL-HIA-00017	Kelly McConnell
MBTL-HIA-00018	Peter Kerr
MBTL-HIA-00019	Frank Forencich
MBTL-HIA-00020	R Rapport
MBTL-HIA-00021	Roger Wechsler
MBTL-HIA-00022	Stephen Bachhuber
MBTL-HIA-00023	Nick Walch
MBTL-HIA-00024	Laura van Fleet
MBTL-HIA-00025	larry wilhelmsen
MBTL-HIA-00027	Jackie Critser
MBTL-HIA-00029	William Newmann
MBTL-HIA-00030	James McClean
MBTL-HIA-00031	Alice Chew
MBTL-HIA-00032	Joline Bettendorf
MBTL-HIA-00034	Liz Kellebrew
MBTL-HIA-00035	Paula Rotondi
MBTL-HIA-00036	Michael O'Neill
MBTL-HIA-00037	Beverly Elaine Sharp
MBTL-HIA-00038	Don Steinke
MBTL-HIA-00039	Jasmine Zimmer-Stucky
MBTL-HIA-00039-001	Ted Kozlowski
MBTL-HIA-00039-002	Barbara Carr
MBTL-HIA-00039-003	Richard Creswell
MBTL-HIA-00039-004	A Bonvouloir

Submission Number	Commenter
MBTL-HIA-00039-005	Robin Patten
MBTL-HIA-00039-006	David Mitchell
MBTL-HIA-00039-007	Lee Findley
MBTL-HIA-00039-008	George Lawrence
MBTL-HIA-00039-009	Kyle Rolnick
MBTL-HIA-00039-010	Adina Parsley
MBTL-HIA-00039-011	Ron & Marci Moore
MBTL-HIA-00039-012	Carlos & Casey Sundermann
MBTL-HIA-00039-013	Laree Johnson
MBTL-HIA-00039-014	john pasqua
MBTL-HIA-00039-015	terry heiser
MBTL-HIA-00039-016	clark crowe
MBTL-HIA-00039-017	Kenneth Chin-Onn
MBTL-HIA-00039-018	Linore Blackstone
MBTL-HIA-00039-019	Bonnie Fuoco
MBTL-HIA-00039-020	Carolyn Treadway
MBTL-HIA-00039-021	Erick Hedrick
MBTL-HIA-00039-022	Georgia Shankel
MBTL-HIA-00039-023	Martin Watts
MBTL-HIA-00039-024	Beverly Antonio
MBTL-HIA-00039-025	Mary Shaughnessy
MBTL-HIA-00039-026	Sally Duffy
MBTL-HIA-00039-027	Robert Jones
MBTL-HIA-00039-028	Vincent Alvarez
MBTL-HIA-00039-029	Anne Elkins
MBTL-HIA-00039-030	Elaine Sharp
MBTL-HIA-00039-031	Sonia ImMasche
MBTL-HIA-00039-032	Sarah McDevitt
MBTL-HIA-00039-033	Susan Bistline
MBTL-HIA-00039-034	Carol Newman
MBTL-HIA-00039-035	Linda Gillaspay
MBTL-HIA-00039-036	Sylvia Shriner
MBTL-HIA-00039-037	Jean Reiher
MBTL-HIA-00039-038	Jo Anna Hebberger
MBTL-HIA-00039-039	Maria Magana
MBTL-HIA-00039-040	Lehman Holder
MBTL-HIA-00039-041	Leslie Spurling
MBTL-HIA-00039-042	Joe c
MBTL-HIA-00039-043	Lloyd Johnston

Submission Number	Commenter
MBTL-HIA-00039-044	Tina McKim
MBTL-HIA-00039-045	k l
MBTL-HIA-00039-046	Barbara Harper
MBTL-HIA-00039-047	Gregory Fite
MBTL-HIA-00039-048	Virgene Link
MBTL-HIA-00039-049	Helgaleena Healingline
MBTL-HIA-00039-050	Maureen Knutsen
MBTL-HIA-00039-051	Richard Bergner
MBTL-HIA-00039-052	Wm Schultz
MBTL-HIA-00039-053	George Silverwood
MBTL-HIA-00039-054	Pamela Mattson McDonald
MBTL-HIA-00039-055	Sandra Smith
MBTL-HIA-00039-056	Jeffrey Panciera
MBTL-HIA-00039-057	Jim Steitz
MBTL-HIA-00039-058	Denee Scribner
MBTL-HIA-00039-059	marge dakouzlian
MBTL-HIA-00039-060	Gail Roberts
MBTL-HIA-00039-061	Wesley Banks
MBTL-HIA-00039-062	rick rappaport
MBTL-HIA-00039-063	Rob Cochran
MBTL-HIA-00039-064	martin donohoe
MBTL-HIA-00039-065	Linda Verdoorn
MBTL-HIA-00039-066	Tom Bugas
MBTL-HIA-00039-067	Kalama Reuter
MBTL-HIA-00039-068	Kelly O'Hanley
MBTL-HIA-00039-069	Charlotte Sines
MBTL-HIA-00039-070	Ann Clarkson
MBTL-HIA-00039-071	Joyce Sherman
MBTL-HIA-00039-072	Richard Weiss
MBTL-HIA-00039-073	Therese Livella
MBTL-HIA-00039-074	Nick Engelfried
MBTL-HIA-00039-075	Elizabeth Cunningham
MBTL-HIA-00039-076	Tylor Hankins
MBTL-HIA-00039-077	Karol Dietrich
MBTL-HIA-00039-078	Elizabeth Kellebrew- Davies
MBTL-HIA-00039-079	Julie Larson
MBTL-HIA-00039-080	Frankie Nielsen
MBTL-HIA-00039-081	Arlene Baker
MBTL-HIA-00039-082	Joann Macey

Submission Number	Commenter
MBTL-HIA-00039-083	Chris Stay
MBTL-HIA-00039-084	Randy Sailer
MBTL-HIA-00039-085	Beth Hartwell
MBTL-HIA-00039-086	Mary andKlaus Neuendorf
MBTL-HIA-00039-087	Kate Schmitt
MBTL-HIA-00039-088	M. G. Lind
MBTL-HIA-00039-089	elyette weinstein
MBTL-HIA-00039-090	Alex Mach
MBTL-HIA-00039-091	Perry Gx
MBTL-HIA-00039-092	Dr. Susan Caswell
MBTL-HIA-00039-093	Dave Westerland
MBTL-HIA-00039-094	Brian Gunn
MBTL-HIA-00039-095	Michael Hall
MBTL-HIA-00039-096	Mr.Shelley Dahlgren, PhD
MBTL-HIA-00039-097	Don & Rita Gillespie
MBTL-HIA-00039-098	Enid Cox
MBTL-HIA-00039-099	Patricia Warden
MBTL-HIA-00039-100	Mona McNeil
MBTL-HIA-00039-101	Josh Heffron
MBTL-HIA-00039-102	Roger Rocka
MBTL-HIA-00039-103	Krista Mead
MBTL-HIA-00039-104	Jan Polychronis
MBTL-HIA-00039-105	Maggie Shields
MBTL-HIA-00039-106	JEFFREY SANDERS
MBTL-HIA-00039-107	Linda Gannon
MBTL-HIA-00039-108	Kasey Zimmer-stucky
MBTL-HIA-00039-109	Steven Wright
MBTL-HIA-00039-110	Tania Malven
MBTL-HIA-00039-111	Nancy Pfeiler
MBTL-HIA-00039-112	Lisa Waldvougel
MBTL-HIA-00039-113	Gary Lindstrom
MBTL-HIA-00039-114	Carol Hiltner
MBTL-HIA-00039-115	Carol Hiltner
MBTL-HIA-00039-116	Dylan Lamar
MBTL-HIA-00039-117	Susan Heath
MBTL-HIA-00039-118	George Keefe
MBTL-HIA-00039-119	Don Jacobson
MBTL-HIA-00039-120	Paul & Susan Ballinger
MBTL-HIA-00039-121	Stephen Curry

Submission Number	Commenter
MBTL-HIA-00039-122	Elizabeth Waldron
MBTL-HIA-00039-123	Dave Shelman
MBTL-HIA-00039-124	Debby Mumm Felnagle
MBTL-HIA-00039-125	Larry and Sherry Davis
MBTL-HIA-00039-126	Andrew Fisher
MBTL-HIA-00039-127	Joan Christensen
MBTL-HIA-00039-128	Benita Campbell
MBTL-HIA-00039-129	Nancy & Mike Herron
MBTL-HIA-00039-130	Robert Applebaum
MBTL-HIA-00039-131	Carolyn Villanova
MBTL-HIA-00039-132	Sheila Maseda- Gille
MBTL-HIA-00039-133	D.G. SIFUENTES
MBTL-HIA-00039-134	Phil Brooke
MBTL-HIA-00039-135	Maureen O'Neal
MBTL-HIA-00039-136	Carol Boudreau
MBTL-HIA-00039-137	Dr Burton and Doris Johnson
MBTL-HIA-00039-138	Ronald Gulla
MBTL-HIA-00039-139	L G ProtectYour Constituency Franklin
MBTL-HIA-00039-140	Christopher Slaton
MBTL-HIA-00039-141	Jerry Rosenkoetter
MBTL-HIA-00039-142	Glenna Hayes
MBTL-HIA-00039-143	SALLY SPELBRING
MBTL-HIA-00039-144	Robert Bench
MBTL-HIA-00039-145	Mary Jo Coblantz
MBTL-HIA-00039-146	Peter Wilcox & Bridget
MBTL-HIA-00039-147	John MacDonald
MBTL-HIA-00039-148	Ron Rushford
MBTL-HIA-00039-149	Celeste Howard
MBTL-HIA-00039-150	Patty Larsen
MBTL-HIA-00039-151	John Wood
MBTL-HIA-00039-152	JoAnne Baker
MBTL-HIA-00039-153	Meryle Korn
MBTL-HIA-00039-154	Jason Knopp
MBTL-HIA-00039-155	Nadine LaVonne
MBTL-HIA-00040	Pete Von Christerson
MBTL-HIA-00041	Mika Godzich
MBTL-HIA-00042	Debbie Dominguez
MBTL-HIA-00043	Ruth Charloff

Submission Number	Commenter
MBTL-HIA-00044	Jeffrey Panciera
MBTL-HIA-00045	Faith Weidner
MBTL-HIA-00047	Dorothy Brockway
MBTL-HIA-00050	Barbara Gottlieb
MBTL-HIA-00051	Mark Feldman
MBTL-HIA-00052	Marilyn Centoni
MBTL-HIA-00053	Miki Laws
MBTL-HIA-00054	Trygve Steen
MBTL-HIA-00055	Kelly McConnell
MBTL-HIA-00056	Harry Kershner
MBTL-HIA-00057	JoAnn Amundson
MBTL-HIA-00059	Trygve Steen
MBTL-HIA-00060	Michael Monroe
MBTL-HIA-00061	Wendy DiPeso
MBTL-HIA-00062	Marta Wilcox
MBTL-HIA-00063	Michael Gochfeld
MBTL-HIA-00064	Jim Steitz
MBTL-HIA-00065	Chris Lish
MBTL-HIA-00066	Peter Cornelison
MBTL-HIA-00067	Jerry Cufley
MBTL-HIA-00068	PAUL SUTER
MBTL-HIA-00069	Daniel Weise
MBTL-HIA-00070	Glenda Carper
MBTL-HIA-00071	Charles Walsh
MBTL-HIA-00072	Sabra Hull
MBTL-HIA-00073	Jude Green
MBTL-HIA-00074	Janice Doherty
MBTL-HIA-00075	Marilyn McCaulley
MBTL-HIA-00076	Diane L. Dick
MBTL-HIA-00077	Susan Burnett
MBTL-HIA-00078	lynn clark
MBTL-HIA-00081	Charles Walsh
MBTL-HIA-00082	L G Franklin
MBTL-HIA-00083	John Nettleton
MBTL-HIA-00084	Jim Steitz
MBTL-HIA-00085	Sonya Norton
MBTL-HIA-00086	Beth Kaeding
MBTL-HIA-00087-001	Stephen Curry
MBTL-HIA-00087-002	Mallory Pratt

Submission Number	Commenter
MBTL-HIA-00087-003	Barbara Scharff
MBTL-HIA-00087-004	Peter Bergel
MBTL-HIA-00087-005	Carol Carver
MBTL-HIA-00087-006	Arthur Birkmeyer
MBTL-HIA-00087-007	Georgeann Gaston
MBTL-HIA-00087-008	Shirley Lutz
MBTL-HIA-00087-009	Rick Rappaport
MBTL-HIA-00087-010	Tim Norgren
MBTL-HIA-00087-011	David Rutiezer
MBTL-HIA-00087-012	Janet Roxburgh
MBTL-HIA-00087-013	David and Ann Cordero
MBTL-HIA-00087-014	Jim Plunkett
MBTL-HIA-00087-015	James Cronin
MBTL-HIA-00087-016	Bonnie McKinlay
MBTL-HIA-00087-017	Paul Suter
MBTL-HIA-00087-018	Joana Kirchhoff
MBTL-HIA-00087-019	Megan Richie
MBTL-HIA-00087-020	Diana Richardson
MBTL-HIA-00087-021	Ed Kaiel
MBTL-HIA-00087-022	Jennifer Darling
MBTL-HIA-00087-023	marilee dea
MBTL-HIA-00088	William Herke
MBTL-HIA-00089	Dave Carman
MBTL-HIA-00091	Kelly McConnell
MBTL-HIA-00092	Laura Ackerman
MBTL-HIA-00094	Marilee Dea
MBTL-HIA-00095	Chris Turner
MBTL-HIA-00096	Regna Merritt
MBTL-HIA-00097	C. Persons
MBTL-HIA-00098	Regna Merritt
MBTL-HIA-00099	Inga Fisher Williams
MBTL-HIA-00100	David Hupp
MBTL-HIA-00101	Fred Greef
MBTL-HIA-00102	Patricia Bode
MBTL-HIA-00103	Kevin Baier
MBTL-HIA-00104	rejean idzerda
MBTL-HIA-00105	Mary Stratton
MBTL-HIA-00106	DAVID SCHIESL
MBTL-HIA-00107	shirley mccarthy

Submission Number	Commenter
MBTL-HIA-00108	Donald Lightfoot
MBTL-HIA-00109	David Edwards
MBTL-HIA-00110	Harry and Jill Brownfield
MBTL-HIA-00111	Liz Washburn
MBTL-HIA-00112	S. Wraight
MBTL-HIA-00113	Sunny Thompson
MBTL-HIA-00114	Tom Strawman
MBTL-HIA-00115	Sara Bhakti
MBTL-HIA-00116	Edward Laclergue
MBTL-HIA-00117	Edward Laclergue
MBTL-HIA-00118	Maude Laslie
MBTL-HIA-00119	Joanne Mayhew
MBTL-HIA-00120	Joanne Mayhew
MBTL-HIA-00121	Joanne Mayhew
MBTL-HIA-00122	Linda Carroll
MBTL-HIA-00123	Jane Middlesworth
MBTL-HIA-00124	Jane Middlesworth
MBTL-HIA-00125	CoreyE. Olsen
MBTL-HIA-00126	CoreyE. Olsen
MBTL-HIA-00127	Dorothy Jordan
MBTL-HIA-00128	Greg & Rebecca Durr
MBTL-HIA-00129	Robin Patten
MBTL-HIA-00130	Michael Soman
MBTL-HIA-00131	Catherine Caron
MBTL-HIA-00132	Bonnie New
MBTL-HIA-00133	Mark Sawyer
MBTL-HIA-00134	T J Thompson
MBTL-HIA-00135	Roger Imes
MBTL-HIA-00136	Paul Palla
MBTL-HIA-00137	Daniel Jaffee
MBTL-HIA-00138	Matthew Genaze
MBTL-HIA-00139	Elizabeth Juvet
MBTL-HIA-00140	Karen Laakaniemi
MBTL-HIA-00141	Wesley Banks
MBTL-HIA-00142	sharon tkacz
MBTL-HIA-00143	Donald Rumph
MBTL-HIA-00144	Kristin Noreen
MBTL-HIA-00145	HUNTER WALLOF
MBTL-HIA-00146	Steven Vogel

Submission Number	Commenter
MBTL-HIA-00147	Beth Jane Freeman
MBTL-HIA-00148	Barbara Cain
MBTL-HIA-00149	Barbara Vinson
MBTL-HIA-00150	Laura Horowitz
MBTL-HIA-00151	Patricia Mizutani
MBTL-HIA-00152	Walter Keene
MBTL-HIA-00153	Mary Headrick
MBTL-HIA-00154	Calvin Cole
MBTL-HIA-00155	Charles Alexander
MBTL-HIA-00156	Gerard Redpath
MBTL-HIA-00157	Mike McCool
MBTL-HIA-00158	Edward McAbee
MBTL-HIA-00159	William Ostrander, Jr.
MBTL-HIA-00160	Susan Haywood
MBTL-HIA-00161	Tom Turner
MBTL-HIA-00162	stephen couche
MBTL-HIA-00163	Ayesha Gill
MBTL-HIA-00164	Alix Keast
MBTL-HIA-00165	Patricia Jerrells
MBTL-HIA-00166	Dr. Mary Ann and Mr. Frank Graffagnin
MBTL-HIA-00167	Saran K.
MBTL-HIA-00168	Genie and Bob McCombs
MBTL-HIA-00169	Dave/Rita Cross
MBTL-HIA-00170	GRACE NEFF
MBTL-HIA-00171	Phillip J Crabill
MBTL-HIA-00172	Patricia Guthrie
MBTL-HIA-00173	Linda Carroll
MBTL-HIA-00174	Richard Weiskopf
MBTL-HIA-00175	Bill Harris
MBTL-HIA-00176	John Kester
MBTL-HIA-00177	Judy Kawamoto
MBTL-HIA-00178	Cynthia Bower
MBTL-HIA-00179	Susan Blain
MBTL-HIA-00180	Thomas Talbot
MBTL-HIA-00181	Mary Margaret
MBTL-HIA-00182	Sheri Staley
MBTL-HIA-00183	George Goffe
MBTL-HIA-00184	Mary Mccall

Submission Number	Commenter
MBTL-HIA-00185	Emilie Marlinghaus
MBTL-HIA-00186	John Fitzpatrick
MBTL-HIA-00187	Sam Bergman
MBTL-HIA-00188	Catherine Ellison
MBTL-HIA-00189	David Leithauser
MBTL-HIA-00190	Bobbie VandeGriff
MBTL-HIA-00191	John Kavalunas
MBTL-HIA-00192	Joseph Borzelleca
MBTL-HIA-00193	Ron Cox
MBTL-HIA-00194	Ruth Darden
MBTL-HIA-00195	Elizabeth Morris Downie
MBTL-HIA-00196	Bryn Hammarstrom
MBTL-HIA-00197	Ellen Cantwell
MBTL-HIA-00198	Elizabeth Hoge
MBTL-HIA-00199	Bruce Hlodnicki
MBTL-HIA-00200	Gregory Monahan
MBTL-HIA-00201	Tim Duda
MBTL-HIA-00202	Tamar Lavy
MBTL-HIA-00203	Julia Bazar
MBTL-HIA-00204	Henry Berkowitz
MBTL-HIA-00205	Rosemarie Carbino
MBTL-HIA-00206	Mary Kay Mattson
MBTL-HIA-00207	William Maclaughlin
MBTL-HIA-00208	Lawrence Jacksina
MBTL-HIA-00209	Danny Dyche
MBTL-HIA-00210	Barbara Kaye
MBTL-HIA-00211	Kristin Fernald
MBTL-HIA-00212	Connie Lippert
MBTL-HIA-00213	Royal Graves
MBTL-HIA-00214	Eugene Gorrin
MBTL-HIA-00215	Susan Selbin
MBTL-HIA-00216	Carol Jurczewski
MBTL-HIA-00217	Gail Mizner
MBTL-HIA-00218	Elizabeth Barger
MBTL-HIA-00219	Wesley Struebing
MBTL-HIA-00220	Stanley Horwitz
MBTL-HIA-00221	Wayne Flick
MBTL-HIA-00222	Tom Nieland
MBTL-HIA-00223	Barbara and Jim Dale

Submission Number	Commenter
MBTL-HIA-00224	Raymond Moreland
MBTL-HIA-00225	Tina Smusz
MBTL-HIA-00226	Haley Ritter
MBTL-HIA-00227	N. Dumser
MBTL-HIA-00228	Mary Barbezat
MBTL-HIA-00229	Janet Matthews
MBTL-HIA-00230	Lois Johnston
MBTL-HIA-00231	m'lou christ
MBTL-HIA-00232	Gabe Magtutu
MBTL-HIA-00233	Mark Fix
MBTL-HIA-00234	Joel Vignere
MBTL-HIA-00235	Don Kelley
MBTL-HIA-00236	Phyllis Dolph
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MBTL-HIA-00039-108	Kasey Zimmer-stucky
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MBTL-HIA-00039-013	Laree Johnson
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MBTL-HIA-00025	larry wilhelmsen
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MBTL-HIA-00039-043	Lloyd Johnston
MBTL-HIA-00230	Lois Johnston
MBTL-HIA-00078	lynn clark
MBTL-HIA-00039-088	M. G. Lind
MBTL-HIA-00039-105	Maggie Shields
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MBTL-HIA-00039-059	marge dakouzlian
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MBTL-HIA-00052	Marilyn Centoni
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MBTL-HIA-00039-023	Martin Watts
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MBTL-HIA-00039-129	Nancy & Mike Herron
MBTL-HIA-00011	Nancy Pape
MBTL-HIA-00039-111	Nancy Pfeiler
MBTL-HIA-00039-074	Nick Engelfried
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MBTL-HIA-00039-054	Pamela Mattson McDonald
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MBTL-HIA-00172	Patricia Guthrie
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MBTL-HIA-00114	Tom Strawman
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MBTL-HIA-00141	Wesley Banks
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MBTL-HIA-00013	William Leighty
MBTL-HIA-00207	William Maclaughlin
MBTL-HIA-00029	William Newmann
MBTL-HIA-00159	William Ostrander, Jr.
MBTL-HIA-00039-052	Wm Schultz

Section 1 - General Comments

Comment Number: MBTL-HIA-00002-2

Commenter: Darvel Lloyd

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I fully support Cowlitz County's draft HIA and recommendations as set forth by the Stand Up To Oil and Power Past Coal communities and strongly advise you follow them, especially this: "We must prevent what we cannot cure."

Comment Number: MBTL-HIA-00005-1

Commenter: Amy Harlib

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

NO MORE COAL! O MORE FOSSIL FUEL FIASCOS! GREEN ENERGY NOW!

Comment Number: MBTL-HIA-00006-3

Commenter: Melvin Mackey

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Shipping coal is much more hazardous than shipping opioids. While opioids have their place, they need to be regulated and highly restricted. Would you be in favor of increasing the profits of opioid producers by shipping unlimited quantities to any country that is willing to pay the price?

Likewise; coal must be used only as absolutely required and then only in very limited quantities. A large coal export terminal in Cowlitz County is both unwarranted and unneeded. Protect our planet and humankind by just saying no.

Comment Number: MBTL-HIA-00008-3

Commenter: Jim Steitz

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The residents of Longview, and other communities for whom this permit would set a precedent, did not necessarily move there to experience one of America's largest commodity export projects operating more hours than not. Persons wishing a full-time industrial experience have ample other places in America to live, and Longview need not be one of them.***

Comment Number: MBTL-HIA-00009-6
Commenter: Julie Glover
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

The project will have huge NEGATIVE impacts.

Comment Number: MBTL-HIA-00009-7
Commenter: Julie Glover
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

DON'T DO this Millennium (MBTL) coal export project -- PLEASE!!!!
THIS REALLY, REALLY MATTERS

Comment Number: MBTL-HIA-00011-1
Commenter: Nancy Pape
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Let's avoid the unnecessary risks to health and environment. Those far outweigh any potential benefits of this project.
Please outline all risks to the fullest extent possible so that folks can weigh this out for themselves.

Comment Number: MBTL-HIA-00013-1
Commenter: William Leighty
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

Because humanity's unrestrained combustion of fossil fuels is inflicting dangers on Earth's life support systems, every jurisdiction on Earth is obligated to do everything it can to reduce our reliance on fossil energy -- including preventing the production and export of such fuels. Preventing Cowlitz County health dangers is our local opportunity to protect humanity and Earth from our short-sighted economic preferences. Please pursue this tool, to prevent coal exports from Washington. We are attempting to prevent coal exports from anywhere in Alaska, to support you.

Comment Number: MBTL-HIA-00014-1
Commenter: Scott Granlund
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

The following statement does well to express my views on this most important topic.

No Coal! Not in my backyard! Get your coal outa here!

Comment Number: MBTL-HIA-00016-2

Commenter: Mary Deaton

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

It is time to stop mining and using coal for power, since so many safer and environmentally better are available now and more are being developed every year.

Comment Number: MBTL-HIA-00022-4

Commenter: Stephen Bachhuber

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

The HIA Steering Committee should recognize the unavoidable, significant, and adverse impacts identified in the FEIS. These cannot be mitigated and the MBTL project should be rejected.

Comment Number: MBTL-HIA-00029-4

Commenter: William Newmann

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Thank you for your consideration of this major preventable action which promotes the health of Washingtonians and others outside our localities.

Comment Number: MBTL-HIA-00032-1

Commenter: Joline Bettendorf

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

The only reason for this country to continue mining and transporting coal is to give a few people jobs in justifiably antique, destructive industries. Is that really a valid choice when so many other non-polluting or less-polluting methods exist in this century? Other countries are finding and transitioning to better methods as quickly as they can while the U. S. bumbles along, still under the impression that our way is the only way to energy production. If we still had innovative industries, they would be phasing out methods destructive to environmental degradation and human health like the rest of the advanced countries and developing better methods. Our industry should ask how they did it if they can't figure it out.

Comment Number: MBTL-HIA-00034-2

Commenter: Liz Kellebrew

Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

I'd also like to point out that major buyers of US coal exports (like China) are already turning to greener energy alternatives, as they're seeing the devastating health consequences of burning coal in their own hometowns. Even if, heaven forbid, the MBTL project did move forward, the forces of the free market have already moved their interests elsewhere, away from coal.

Comment Number: MBTL-HIA-00034-3

Commenter: Liz Kellebrew
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

I strongly urge the HIA Steering Committee to steer Cowlitz County in the right direction: forward into the future, not 100 years into the past. Let's stop the MBTL project so our families can thrive, and so that Cowlitz County can welcome new, green energy businesses into its long-term economic plan. Thank you for your commitment to protecting our families.

Comment Number: MBTL-HIA-00036-1

Commenter: Michael O'Neill
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

A big thanks to you and all the staff involved in completing the draft HIA. I deeply appreciated the dedication of everyone in making sure an HIA still happens and that it is a quality product given the resources and time available. It was an incredible honor to be included in the contributing credits, and to have been a part of the process, even if not involved in crafting the actual document.

Here are the comments I'd like to submit to the public record:

General Feedback Positive: * Satisfactorily explores all Steering Committee questions except #10 * Well written and researched * Communicates a balanced facts based perspective

Comment Number: MBTL-HIA-00039-001-1

Commenter: Ted Kozlowski
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

"benefits" don't exist to the community at large in this quick-buck, climate change accelerating proposal. I hope you choose to protect your area residents.

Comment Number: MBTL-HIA-00039-005-1

Commenter: Robin Patten
Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

All people should be concerned about public

Comment Number: MBTL-HIA-00039-006-1

Commenter: David Mitchell

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Antiquated resource. Coal should of been abolished decades ago. Let's move on up too the Twenty-First Century!

Comment Number: MBTL-HIA-00039-009-1

Commenter: Kyle Rolnick

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

As a resident of this planet earth, it is in my interest that there is NO new fossil fuel infrastructure investments. We must stop poisoning the earth and it's atmosphere and disrupting it's climate.

Comment Number: MBTL-HIA-00039-011-1

Commenter: Ron & Marci Moore

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

As a teacher and resident of Longview, I believe that any fossil fuel endeavor to be a threat to the health and the quality of life for our community. We should be moving beyond fossil fuels (of any kind) and we should not turn the Northwest into the exit point for these toxins... just to make a few bucks.It's a simple choice: become like any town along the Monongahela River, with its coal dust river banks and rail lines, not to mention a tragic economy, or move forward with clean/greener technologies. Besides, one would be an idiot to believe that the companies who profit from our clogged roadways and sick kids, would make the effort to protect our quality of life and health. Look at any oil, gas, or coal town--any of them clean?

Comment Number: MBTL-HIA-00039-013-1

Commenter: Laree Johnson

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Assuring good Public health is more important than any amount of money to be made (read GREED). Is there any question?

Comment Number: MBTL-HIA-00039-016-1

Commenter: clark crowe

Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

ban the coal, leave it in the ground!

Comment Number: MBTL-HIA-00039-018-1

Commenter: Linore Blackstone
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Because human unethical and immoral cruel action is killing life on this earth.

Comment Number: MBTL-HIA-00039-019-1

Commenter: Bonnie Fuoco
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Because I care about quality of life.

Comment Number: MBTL-HIA-00039-021-1

Commenter: Erick Hedrick
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Because, unlike ALL republicans, I put people over profits every time.

Comment Number: MBTL-HIA-00039-027-1

Commenter: Robert Jones
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Citizens of the Pacific NW will fight this attempt to turn our beautiful region into a toxic hellhole like they've done nationwide. We will fight you till eternity Millennium. Go Home. Better yet, reinvest in clean energy, the wave of the future. For supposed smart businessmen, you sure are stupid to not see the obvious, that the future of the world is Clean Energy!

Comment Number: MBTL-HIA-00039-028-1

Commenter: Vincent Alvarez
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Coal and it's pollution is the past. Renewables are the future.

Comment Number: MBTL-HIA-00039-029-2

Commenter: Anne Elkins

Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

It is yesterday's fuel, the future is moving towards alternative energy. China is taking a lead on building solar panels. Why isn't our country doing the same? No more coal!

Comment Number: MBTL-HIA-00039-035-1
Commenter: Linda Gillaspy
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Coal export; why are you embracing an unhealthy 100 year old fossil fuel? Fossil fuels endanger my child's health and future. Fossil fuels must stay in the ground.

Comment Number: MBTL-HIA-00039-036-1
Commenter: Sylvia Shriner
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Coal is a dirty energy at every step of the way. Washington does not need to jeopardize the health of our citizens to export 19th century energy overseas and add to the climate crisis. Please reject Millennium's permits for this project.

Comment Number: MBTL-HIA-00039-037-1
Commenter: Jean Reiher
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Coal is a dirty energy source. The extraction, transport, and use of coal are bad for human health and the environment. There are clean sources of energy that should be developed instead of dirty coal.

Comment Number: MBTL-HIA-00039-038-1
Commenter: Jo Anna Heberger
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Coal is a dirty fossil fuel and should not be used as a energy source. We must get away from fossil fuels and direct our attention to renewable fuels.

Comment Number: MBTL-HIA-00039-039-1
Commenter: Maria Magana
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Coal is a dirty fossil fuel. I am concerned we are continuing to foster a dependency on a fuel which is harmful to the environment and people when more cost effective alternatives exist and should be promoted.

Comment Number: MBTL-HIA-00039-040-1

Commenter: Lehman Holder

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Coal is a dirty fuel that has no place in today's and tomorrow's Clean Energy world.

Comment Number: MBTL-HIA-00039-041-1

Commenter: Leslie Spurling

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Coal is a filthy pollutant from the moment companies rupture the earth to excavate it to the time it is burned and pollutes the air we breathe. It is an outmoded source of "energy" and is uneconomical on top of the pollution. Pursuing coal is backwards thinking, we need to move on to cleaner fuels which will also be cheaper in the long run, and will create jobs from the start.

Comment Number: MBTL-HIA-00039-042-1

Commenter: Joe c

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Coal is a loser from the ground to the atmosphere where it drops back on us as pollutants. That some would make profit from this horrendously dirty product is just so wrong in so many ways.

Comment Number: MBTL-HIA-00039-043-1

Commenter: Lloyd Johnston

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Coal is a moribund industry that should be allowed a natural death not further enabled by shipping our unwanted coal to pollute foreign nations.

Comment Number: MBTL-HIA-00039-044-1

Commenter: Tina McKim

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Coal is a risk to public health, the health of our environment, tribal sovereignty and our economy. We need to be investing in clean, modern technologies, not a dying industry that harms everyone and thing it touches.

Comment Number: MBTL-HIA-00039-045-1

Commenter: k l

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Coal is dirty to the environment, and to the health of people and animals. Coal is a thing of the past. We need clean renewable fuel for our energy. We need to live for the future, not the past.

Comment Number: MBTL-HIA-00039-049-1

Commenter: Helgaleena Healingline

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Coal is no longer a necessity for our electrical needs and its mining is terribly destructive to every living thing in the vicinity, including humans.

Comment Number: MBTL-HIA-00039-050-1

Commenter: Maureen Knutsen

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Coal is the dirtiest of the fossil fuels with the most negative impacts on our air and climate. It is totally unhealthy for our entire planet!

Comment Number: MBTL-HIA-00039-051-1

Commenter: Richard Bergner

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Coal is very bad for the health of people and the planet. Renewable energy is much, much better.

Comment Number: MBTL-HIA-00039-053-1

Commenter: George Silverwood

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Coal this is outdated technology causing air pollution and climate change. Please do not allow this facility.

Comment Number: MBTL-HIA-00039-054-1

Commenter: Pamela Mattson McDonald

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Coal transport litters communities with toxic waste and is no longer needed as China speeds towards a coal free future.

Comment Number: MBTL-HIA-00039-055-1

Commenter: Sandra Smith

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Considering the failure of our government to fund a reliable health care system for all, we certainly can't afford to have projects built that risk the health of our people.

Comment Number: MBTL-HIA-00039-056-1

Commenter: Jeffrey Panciera

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Corporations do not care about public health. The tobacco industry knew for years that its products gave people cancer and other problems, but could not bear to give up their profits. Dow and Monsanto have killed many people with their products. Read the cancer rates of minority communities around Anniston, Alabama, seat of a Monsanto pesticide factory in the 1940s. Read about Love Canal, the Gulf explosion of a BP oil platform and toxic Correxit. Only money counts, only their shareholders and bonuses count.

Comment Number: MBTL-HIA-00039-057-1

Commenter: Jim Steitz

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Even the smallest scope of environmental analysis, the terminal itself and the proximate impact to the local natural and human environment, shows the MBTL proposal to be grossly unacceptable. The coal shipping traffic through the Columbia River, the local air and water pollution, congestion, and destruction of the community ambiance, would transform the local area into a purgatory of industrial misery. The river ecosystem, whose marine mammals and fisheries are already under severe stress from hydroelectric dams, fishing pressure, and water quality degradation, would face another maelstrom of industrial pollution, noise, and physical displacement. The residents of Longview, and other communities for whom this permit would set a precedent, did not necessarily move there to experience one of America's largest commodity export projects operating more hours than not. Persons wishing a full-time industrial experience have ample other places in America to live, and Longview need not be one of them.

Comment Number: MBTL-HIA-00039-058-1

Commenter: Denee Scribner

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Every community deserves clean water and air. Sending toxic substances through our environment is not safe.

Comment Number: MBTL-HIA-00039-059-1

Commenter: marge dakouzlian

Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

EVOLVE will you?? keep saying that doing all of this to Grandmother Earth & All Our Relations has no consequences---just wait wasishu--just wait.....in fact you will not have to wait for long.....

Comment Number: MBTL-HIA-00039-063-1
Commenter: Rob Cochran
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

How many times do we have repeat ourselves? For the time, nobody wants a filthy, disgusting coal terminal on the Columbia River! Arch coal is like a pesky salesman who can't take no for an answer. Enough!

Comment Number: MBTL-HIA-00039-065-1
Commenter: Linda Verdoorn
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

I am a voter and will not vote for any that vote yes for Millennium or the coal trains.

Comment Number: MBTL-HIA-00039-065-3
Commenter: Linda Verdoorn
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

PLEASE stop this from happening.

Comment Number: MBTL-HIA-00039-068-1
Commenter: Kelly O'Hanley
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

We need safe renewable energy - NOT COAL.

Comment Number: MBTL-HIA-00039-070-1
Commenter: Ann Clarkson
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

I am concerned about the health of the planet.

Comment Number: MBTL-HIA-00039-073-4
Commenter: Therese Livella
Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Global warming is a serious issue. WA needs to be the responsible party and say to the coal companies, "NO, we will not let you destroy the planet". I feel very honored and blessed to be fighting this fight and speaking up for the environment we all depend on.

Comment Number: MBTL-HIA-00039-077-2

Commenter: Karol Dietrich

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

leave it in the ground...never move it and definitely don't burn it.

Comment Number: MBTL-HIA-00039-078-2

Commenter: Elizabeth Kellebrew- Davies

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I'd also like to point out that major buyers of US coal exports (like China) are already turning to greener energy alternatives, as they're seeing the devastating health consequences of burning coal in their own hometowns. Even if, heaven forbid, the MBTL project did move forward, the forces of the free market have already moved their interests elsewhere--- away from coal. I strongly urge the HIA Steering Committee to steer Cowlitz County in the right direction: forward into the future, not 100 years into the past. Let's stop the MBTL project so our families can thrive, and so that Cowlitz County can welcome new, green energy businesses to its

Comment Number: MBTL-HIA-00039-080-1

Commenter: Frankie Nielsen

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I have grandchildren in Oakland where big money wants to send coal out of the Port of Oakland to China.

Comment Number: MBTL-HIA-00039-081-3

Commenter: Arlene Baker

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

You can bet they won't take responsibility for anyone's loss of health due to their business operations. This coal export terminal is simply not acceptable.

Comment Number: MBTL-HIA-00039-085-1

Commenter: Beth Hartwell

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I live in Hood River now, but spent decades along the Columbia in both Cowlitz and Clark counties, building a business and raising a family. My children and grandchildren still live there, and all of us are impacted by what happens to our beloved river. I appreciate the opportunity to comment on this draft, and is a strong start to what should be a strong recommendation to prevent construction of the MBTL.

Comment Number: MBTL-HIA-00039-085-5

Commenter: Beth Hartwell

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

It's past time to acknowledge these issues and STOP now. Finally, I ask that the HIA Steering Committee recognize and affirm that the unavoidable, significant, and adverse impacts

Comment Number: MBTL-HIA-00039-087-2

Commenter: Kate Schmitt

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

So is coal's enormous contribution to climate change. How can we still be questioning these things? How much more study do we need to prove what is already proven? The time to stop using and exporting coal is NOW, not next year or the year after that. Otherwise, tomorrow will be a nightmare.

Comment Number: MBTL-HIA-00039-088-1

Commenter: M. G. Lind

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

In a nutshell, it's the only sane response.

Comment Number: MBTL-HIA-00039-092-1

Commenter: Dr. Susan Caswell

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

it's stupid, costly, and deadly-- we must move to renewable, sustainable energy sources NO

Comment Number: MBTL-HIA-00039-094-2

Commenter: Brian Gunn

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

We have a responsibility to protect our kids and to help them learn; profitability of the coal industry should not be placed above proven impacts to public health and the future of our children.

Comment Number: MBTL-HIA-00039-095-1
Commenter: Michael Hall
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Look at the coal emission photos from India and China. Filthy and dangerous stuff. Plus the world is warming from fossil fuel consumption. Keep it in the ground..!

Comment Number: MBTL-HIA-00039-096-1
Commenter: Mr.Shelley Dahlgren, PhD
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Fossil energy is bad for health and so many other things, including mother earth herself.

Comment Number: MBTL-HIA-00039-099-2
Commenter: Patricia Warden
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

The coal industry cavalierly ignores their health, in pursuit of profit.

Comment Number: MBTL-HIA-00039-100-2
Commenter: Mona McNeil
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Our environment is already damaged. No more!!!

Comment Number: MBTL-HIA-00039-101-1
Commenter: Josh Heffron
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

No Coal Terminal No Coal Terminal No Coal Terminal No cowl!!

Comment Number: MBTL-HIA-00039-102-2
Commenter: Roger Rocka
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

The Millennium coal export project presents a choice between the profits of a few and the welfare of communities all along the lower Columbia River.

Comment Number: MBTL-HIA-00039-103-3

Commenter: Krista Mead

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

No industry has a right to harm our most vulnerable, future citizens. PLEASE consider the long-term damages! Thank you, Krista Mead (Retired teacher)

Comment Number: MBTL-HIA-00039-104-1

Commenter: Jan Polychronis

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Oh my gosh, where to start?? Pollution, health, disease, environmental degradation, habitat destruction

Comment Number: MBTL-HIA-00039-105-1

Commenter: Maggie Shields

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Our environment is the most important issue of our time!!

Comment Number: MBTL-HIA-00039-107-1

Commenter: Linda Gannon

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Please protect the health and safety of those residents living near the proposed terminal and rail line and deny this harmful project. Thank you.

Comment Number: MBTL-HIA-00039-109-2

Commenter: Steven Wright

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Consider the impacts and reject coal.

Comment Number: MBTL-HIA-00039-110-1

Commenter: Tania Malven

Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Save lives KEEP IT IN THE GROUND!!!!!!!!!!!!

Comment Number: MBTL-HIA-00039-111-1

Commenter: Nancy Pfeiler
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Some of us are on this planet to protect those who cannot see from greedy shortsighted projects--like this terminal. I am and you are. Thank you for protecting all of us.

Comment Number: MBTL-HIA-00039-112-1

Commenter: Lisa Waldvougel
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Thank you for this opportunity to comment on the draft HIA for the Millennium (MBTL) coal export project. This draft is a strong start. It should provide the basis for strong recommendations from the HIA Steering Committee to prevent construction of the MBTL project and forever protect the health of communities from the dangers of coal mining, transport, storage and export. It can also be a tool to protect the health and safety of Cowlitz County residents from future projects that endanger human health and our climate.

Comment Number: MBTL-HIA-00039-114-3

Commenter: Carol Hiltner
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Keep coal in the ground. There are better ways to power our society.

Comment Number: MBTL-HIA-00039-115-3

Commenter: Carol Hiltner
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Keep coal in the ground. There are better ways to power our society.

Comment Number: MBTL-HIA-00039-116-1

Commenter: Dylan Lamar
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

The facts are quite clear that this is nothing but a loss for the public good due to immediate and long term health

impacts. It is only a win for fossil fuel industry profits. And in furthering climate change it is a lose-lose scenario for every living thing on earth.

Comment Number: MBTL-HIA-00039-117-1

Commenter: Susan Heath

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

The health and safety of the children of Cowlitz County are far more important than the questionable business benefits of the Millennium Coal Export Project. Please do what is best for your residents and reject the project.

Comment Number: MBTL-HIA-00039-118-1

Commenter: George Keefe

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

The health of our children and our vulnerable planet demand action.

Comment Number: MBTL-HIA-00039-119-1

Commenter: Don Jacobson

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

The health of our citizens is more important than the profits of the polluting coal industry.

Comment Number: MBTL-HIA-00039-121-1

Commenter: Stephen Curry

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

The negative impacts are local as stated above and world-wide with respect to climate change. This is going the opposite direction that China is going. We will be a 'has-been' economy and country with China technologically on top in the 21st century if we don't get smart and dump coal. If we don't this would be a terrible legacy to leave our children! This selfishness must stop!

Comment Number: MBTL-HIA-00039-122-1

Commenter: Elizabeth Waldron

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

The PNW has repeatedly been the target of coal mining & exports. Coal is dirty & unhealthy. We have clean energy sources & don't need to be exporting dirt. Our planet needs us to be clean!

Comment Number: MBTL-HIA-00039-123-1
Commenter: Dave Shelman
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

the risks to the Columbia River, the National Scenic Area and the Gorge communities are not worth the risks.

Comment Number: MBTL-HIA-00039-124-2
Commenter: Debby Mumm Felnagle
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

We do not need coal, let's use our efforts and finances for clean energy!

Comment Number: MBTL-HIA-00039-125-1
Commenter: Larry and Sherry Davis
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

The ugly filth will destroy what we have here. Our river will suffer. Our air will be gross. Traffic will be a total nightmare. Cancer, asthma on the rise. All the lies from the Coal people. The terrible list goes on and on. Washington state should be better than this.

Comment Number: MBTL-HIA-00039-126-1
Commenter: Andrew Fisher
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

The video "Secrets Police Don't Want You To Know" at <http://youtu.be/B3nok7Cb28> is 2.5 hours long but it's totally worth your time to watch the whole entire thing because it exposes how the cops, judges, prosecution attorneys, politicians, and car insurance salesmen have stolen BILLIONS from the common people as well as the secrets that anyone can follow to prevent them from stealing that money. Also check out the scripts related to the video at <http://logoradionetwork.com/tao/> This video can help put a stop to tyranny and in turn bring freedom and higher consciousness to all! So please help me in my crusade to spread this info like

Comment Number: MBTL-HIA-00039-127-1
Commenter: Joan Christensen
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

The World needs to phase out coal and all other fossil fuels or we're toast.

Comment Number: MBTL-HIA-00039-128-1
Organization:
Commenter: Benita Campbell
Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

There is growing and mounting evidence to the impacts of dirty fossil fuels. It hurts everybody, especially babies and children. Anybody who claims to be pro-life and doesn't want to go against this disgusting, sociopathic industry is beyond hypocritical.

Comment Number: MBTL-HIA-00039-129-1

Commenter: Nancy & Mike Herron

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

There is no need to endanger the health and lives of those of us along the Columbia River so coal can be shipped overseas.

Comment Number: MBTL-HIA-00039-13

Commenter: Jasmine Zimmer-Stucky

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

Finally, I ask that the HIA Steering Committee recognize and affirm that the unavoidable, significant, and adverse impacts identified in the Final Environmental Impact Statement (FEIS) and recognized by the Cowlitz County Hearings Officer cannot be mitigated and that the MBTL project should be rejected.

Comment Number: MBTL-HIA-00039-130-1

Commenter: Robert Applebaum

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

THERE is no such thing as "CLEAN COAL"! Stop poisoning our own environment and forwarding the poison to others. There is much more promising profit in renewable energy industries.

Comment Number: MBTL-HIA-00039-132-1

Commenter: Sheila Maseda- Gille

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

There is no way Washington benefits from this dirty coal proposal. The correct response to this project is NO!

Comment Number: MBTL-HIA-00039-135-1

Commenter: Maureen O'Neal

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

This is CRAZY with climate change and asthma rampant in the U.S.!

Comment Number: MBTL-HIA-00039-136-1

Commenter: Carol Boudreau

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

This project is wrong on so many fronts. I do not support bringing such a dirty industry to Cowlitz County.

Comment Number: MBTL-HIA-00039-137-1

Commenter: Dr Burton and Doris Johnson

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Though I am in my 80's I am concerned for those who will come after me. We cannot leave the world less clean than we found it.

Comment Number: MBTL-HIA-00039-138-1

Commenter: Ronald Gulla

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Time to fight for our environment and future.

Comment Number: MBTL-HIA-00039-139-1

Commenter: L G ProtectYour Constituency Franklin

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Washington must show the nation that public health CAN be considered as a major reason to deny filthy, dangerous and risky projects which put populations in Harm's Way and do NOT justify their emplacement by water sources. Thank you for using common sense, since ONE accident would cost the corporations only money while LIVES and Public Health is at stake. THIS is more important than helping a dying fossil fuel industry. Solar, wind and wave power is much cleaner and looks towards the future with less risk to human, animal and plant populations. thank you Washington State for showing the way.

Comment Number: MBTL-HIA-00039-140-1

Commenter: Christopher Slaton

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

We are concerned with the environmental impact of the entire coal industry. From the mining to the burning, coal is dirty. Our nation needs to focus on renewable energy. If we stop listening to our scientists then we will be setting ourselves up for a future of trouble and our planet and all the lives it supports will be put in jeopardy.

Comment Number: MBTL-HIA-00039-141-1

Commenter: Jerry Rosenkoetter

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

We do not need more dirty coal. We do not need coal that is increasingly difficult, expensive, and dangerous to extract. We do not need to sell coal abroad to profit only trans-national corporations. We do not need to burn coal and damage the planet. Leave it in the ground!

Comment Number: MBTL-HIA-00039-142-1

Commenter: Glenna Hayes

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

We don't need to risk the health of our communities to sustain the fossil fuel industry. This is an energy source of the past. Let's invest in the future!!

Comment Number: MBTL-HIA-00039-143-1

Commenter: SALLY SPELBRING

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

WE DON'T NEED TO USE COAL ANYMORE

Comment Number: MBTL-HIA-00039-144-1

Commenter: Robert Bench

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

We have several options that are much cleaner and cheaper than "clean coal."

Comment Number: MBTL-HIA-00039-146-1

Commenter: Peter Wilcox & Bridget

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

We need to be dramatically decreasing GHG's, not increasing them! No to Millenium Coal!!!

Comment Number: MBTL-HIA-00039-147-1
Commenter: John MacDonald
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

We need to be reducing the use of coal and other non-renewable energy sources, not increasing their use. Climate change is real and a threat to the health of the world, not just locally.

Comment Number: MBTL-HIA-00039-148-1
Commenter: Ron Rushford
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

WE NEED TO ROLL BACK BOTH COAL AND OIL EXPORT'S AND RESULTING TRAINS THAT ADD TO POLUTION AND INDANGER OUR HOMES AND INFRASTRUCTURE!

Comment Number: MBTL-HIA-00039-149-1
Commenter: Celeste Howard
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

We now know a lot more about that impact than we did years ago. Communities should not be made sacrifice zones in order to export this hazardous substance to people in other parts of

Comment Number: MBTL-HIA-00039-152-2
Commenter: JoAnne Baker
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Who allowed Reynolds sell their plant to who - Alcoa? Then allow Alcoa to go bankrupt? Unconscionable.

Comment Number: MBTL-HIA-00039-152-3
Commenter: JoAnne Baker
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Would there ever be a break for traffic to go through? Then the grounds, already polluted for decades of aluminum production. Oh yes, let's pile mountains of coal on top. Just how saturated with pollution can an area be? And then, let's clog the Columbia with ships to transport all this filthy coal to China for China to burn, further polluting the entire world. Stop this rape of our planet. The Millennium project is absolutely the worst plan ever. You have the power to stop it once and for all!

Comment Number: MBTL-HIA-00039-153-2

Commenter: Meryle Korn

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Best practice: LEAVE IT IN THE GROUND! Worst option: keep mining, transporting, and burning coal to continue its polluting and climate-warming damages. DON'T ENABLE COAL! No transportation on or alongside of the Columbia. No massive, polluting "storage dump" in Cowlitz County. No exports of coal to the other side of the world, from whence its pollution will ride the jetstreams back to dump on us yet again. SAY NO TO COAL! It is NOT worth the short-term profits of a dying industry industry when it wrecks so much damage

Comment Number: MBTL-HIA-00039-155-1

Commenter: Nadine LaVonne

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Why wouldn't any intelligent ethical human be concerned? Obviously those who are in favor of continued use of coal because they want to make money off it know all the reasons not to do so. And they don't give a damn because they are not ethical in any way. They would rather be greedy and take everything they can from the earth and the rest of us be damned.

Comment Number: MBTL-HIA-00040-4

Commenter: Pete Von Christierson

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

This data shows how detrimental a coal port would be to the County and the State.

Comment Number: MBTL-HIA-00041-1

Commenter: Mika Godzich

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Though I live in CA, I have ties to OR and care deeply about the wellbeing of my neighbors to the very near north.

Comment Number: MBTL-HIA-00043-1

Commenter: Ruth Charloff

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Based on the draft Health Impact Assessment (HIA), I urge the HIA Steering Committee to REJECT the proposed Millennium coal export terminal, based both on information included in the draft and information omitted from

the draft.

Comment Number: MBTL-HIA-00043-3

Commenter: Ruth Charloff

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

I urge the HIA Steering Committee, Cowlitz County and the WA Department of Health to recommend rejection of this project and denial of all permits.

Comment Number: MBTL-HIA-00045-1

Commenter: Faith Weidner

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Those who come after us must have a clean, healthy world to inherit. A coal terminal is totally unacceptable.

Comment Number: MBTL-HIA-00047-1

Commenter: Dorothy Brockway

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

As a resident of the west coast, I urge the HIA Steering Committee to reject this proposal.

Comment Number: MBTL-HIA-00050-5

Commenter: Barbara Gottlieb

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I can't imagine why you would subject the people of Oregon and Washington, and those of us living farther afield, to such atrocious harms. I urge the HIA Steering Committee, Cowlitz County and the WA Department of Health to recommend rejection of this project and denial of all permits.

Comment Number: MBTL-HIA-00051-1

Commenter: Mark Feldman

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

DO NOT ALLOW THIS PROJECT TO BE BUILT!

Comment Number: MBTL-HIA-00052-1

Commenter: Marilyn Centoni

Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

Trump is the most corrupt person on earth. Coal mining kills the miners and their families. It is killing the earth. We MUST GET RID OF STUPID TRUMP

Comment Number: MBTL-HIA-00054-1
Commenter: Trygve Steen
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

I am writing to oppose the Millennium Coal Export Terminal in Vancouver Washington. I am a resident of Portland and its activities would directly affect me in many ways. My reaction to this Terminal is based on substantial background: a Ph.D. in Biology from Yale; an MPH in environmental toxicology from UC Berkeley, as well as other education; I have taught for over 40 years at Portland State University; my teaching included basic medical sciences, environmental toxicology; teratology, and since the early 1970's - courses focused on Environmental Sustainability; I have also taught at OHSU; finally I co-chaired the "Health Impact Review Panel" for the proposed METRO incinerator planned for Columbia County (Our panel's report was a major factor in that facility not being built). **BASED ON THIS EXTENSIVE EXPERIENCE, I CAN NOT STATE MY OBJECTIONS TO THIS FACILITY MORE STRONGLY.** I fully agree with and support the following well done specific objections to the facility, and I concur with the PSR request that you reject this project, deny all relevant permits, and defend your decision by whatever means that is necessary.

Comment Number: MBTL-HIA-00055-1
Commenter: Kelly McConnell
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

I urge the HIA Steering Committee to reject this proposal, based both on information included in the draft and information omitted from the draft.
I want CLEAN air, water and land. Extracting and exporting coal is a LARGE part of what is preventing us from having them. The (literally) handful of jobs that would be created by this project are worth FAR less to our community than a clean, healthy environment.

Comment Number: MBTL-HIA-00055-2
Commenter: Kelly McConnell
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

PLEASE STOP sacrificing everything we hold dear to the greedy effing rich!

Comment Number: MBTL-HIA-00059-1
Commenter: Trygve Steen
Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The Union of Concerned Scientists submission follows:

I am writing to oppose the Millennium Coal Export Terminal in Vancouver Washington. I am a resident of Portland and its activities would directly affect me in many ways. My reaction to this Terminal is based on substantial background: a Ph.D. in Biology from Yale; an MPH in environmental toxicology from UC Berkeley, as well as other education; I have taught for over 40 years at Portland State University; my teaching included basic medical sciences, environmental toxicology; teratology, and since the early 1970's - courses focused on Environmental Sustainability; I have also taught at OHSU; finally I co-chaired the "Health Impact Review Panel" for the proposed METRO incinerator planned for Columbia County (Our panel's report was a major factor in that facility not being built). **BASED ON THIS EXTENSIVE EXPERIENCE, I CAN NOT STATE MY OBJECTIONS TO THIS FACILITY MORE STRONGLY.** I fully agree with and support the following well done specific objections to the facility, and I concur with the PSR request that you reject this project, deny all relevant permits, and would add - defend your decision by whatever means that is necessary.

Comment Number: MBTL-HIA-00060-1

Commenter: Michael Monroe

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

It is absurd that in 2018 we would even consider the construction of a coal export terminal. We should not be burning coal at all any more; the exhaust is too destructive. And the cost of harvesting coal in both monetary and environmental terms is astronomical. Please deny all permits.

Comment Number: MBTL-HIA-00061-1

Commenter: Wendy DiPeso

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

As a grandmother of children that live along the Columbia River I want to thank you for this opportunity to comment on the draft Health Impact Assessment (HIA) for the proposed Millennium coal export terminal.

Comment Number: MBTL-HIA-00062-1

Commenter: Marta Wilcox

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

This is such a dumb thing to do AND a waste of money! THINK! Before doing this, it is so against humanity!

Comment Number: MBTL-HIA-00063-1

Commenter: Michael Gochfeld

Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

This project has been brewing for a long time, and there are objections in many areas: health, pollution, aesthetics, economics, climate. The HIA Steering Committee should reject this proposal. It is my understanding that this would be the largest coal export terminal in the nation. The proposed volume of coal export is staggering.

Comment Number: MBTL-HIA-00063-7
Commenter: Michael Gochfeld
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

Because many of these serious health impacts cannot be mitigated, I urge the HIA Steering Committee, Cowlitz County and the WA Department of Health to recommend rejection of this project and denial of all permits.

Comment Number: MBTL-HIA-00064-1
Commenter: Jim Steitz
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Even the smallest scope of environmental analysis, the terminal itself and the proximate impact to the local natural and human environment, shows the MBTL proposal to be grossly unacceptable. The coal shipping traffic through the Columbia River, the local air and water pollution, congestion, and destruction of the community ambiance, would transform the local area into a purgatory of industrial misery. The river ecosystem, whose marine mammals and fisheries are already under severe stress from hydroelectric dams, fishing pressure, and water quality degradation, would face another maelstrom of industrial pollution, noise, and physical displacement. The residents of Longview, and other communities for whom this permit would set a precedent, did not necessarily move there to experience one of America's largest commodity export projects operating more hours than not. Persons wishing a full-time industrial experience have ample other places in America to live, and Longview need not be one of them.

Comment Number: MBTL-HIA-00065-1
Commenter: Chris Lish
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

"Our duty to the whole, including to the unborn generations, bids us to restrain an unprincipled present-day minority from wasting the heritage of these unborn generations. The movement for the conservation of wildlife and the larger movement for the conservation of all our natural resources are essentially democratic in spirit, purpose and method." -- Theodore Roosevelt

Comment Number: MBTL-HIA-00065-2
Commenter: Chris Lish

Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

"Every man who appreciates the majesty and beauty of the wilderness and of wild life, should strike hands with the farsighted men who wish to preserve our material resources, in the effort to keep our forests and our game beasts, game-birds, and game-fish-indeed, all the living creatures of prairie and woodland and seashore-from wanton destruction. Above all, we should realize that the effort toward this end is essentially a democratic movement." -- Theodore Roosevelt

Comment Number: MBTL-HIA-00065-3
Commenter: Chris Lish
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

"Do not suffer your good nature, when application is made, to say 'Yes' when you should say 'No'. Remember, it is a public not a private cause that is to be injured or benefited by your choice." -- George Washington

Comment Number: MBTL-HIA-00065-4
Commenter: Chris Lish
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

"A thing is right when it tends to preserve the integrity, stability, and beauty of the biotic community. It is wrong when it tends otherwise." -- Aldo Leopold

Comment Number: MBTL-HIA-00066-3
Commenter: Peter Cornelison
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Please do not allow this terminal to be built.

Comment Number: MBTL-HIA-00068-1
Commenter: PAUL SUTER
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

The message of the draft Health Impact Assessment of Millenium's proposed coal port is clear: Millenium should not be allowed to go ahead with its project. Please heed the warnings of the draft's conclusions.

Comment Number: MBTL-HIA-00071-1
Commenter: Charles Walsh
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

First and foremost my elderly mother lives in Woodland, WA., within sound of train traffic paralleling I-5. She served our country and is ended her military career in 1946 as an ensign in the US Navy. With all that follows please remember her and others like her.

Comment Number: MBTL-HIA-00072-2

Commenter: Sabra Hull

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I urge denial of this proposal.

Comment Number: MBTL-HIA-00073-1

Commenter: Jude Green

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

We don't want to export coal from Washington State. It is not good for the water, land, or air. And when it is burned it goes into the atmosphere, and comes back in the form of air pollution.

Comment Number: MBTL-HIA-00074-4

Commenter: Janice Doherty

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

It is past time for all citizens of Washington State to work together to protect the environment for the future. Short term economical benefits are far outweighed by the need for a sustainable environment.

Please do NOT allow the Millennium project to continue on the pretext it will be good for the health of the people, the environment and the local economy.

Comment Number: MBTL-HIA-00075-1

Commenter: Marilyn McCaulley

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Protect our health and the health of our planet by prevention of construction of the Millenium coal export facility!

Comment Number: MBTL-HIA-00076-1

Commenter: Diane L. Dick

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Thank you to the HIA Steering Committee and the contributors who have spent countless hours, many unpaid, to question, review and analyze the health effects of creating one of the nation's largest coal export terminals in our small and environmentally sensitive community.

Comment Number: MBTL-HIA-00078-1

Commenter: lynn clark

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Who is not worthy among you of PURE AIR and PURE WATER? These are God Ordained. Those who PROTECT them are also God Ordained.

Comment Number: MBTL-HIA-00081-1

Commenter: Charles Walsh

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

First and foremost my elderly mother lives in Woodland, WA., within sound of train traffic paralleling I-5. She served our country and is ended her military career in 1946 as an ensign in the US Navy. With all that follows please remember her and others like her.

Comment Number: MBTL-HIA-00082-1

Commenter: L G Franklin

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

What YOU decide will have far reaching implications for the consideration of Health, Risks (environmental from water to air to fauna and flora. ANY accident will fall on the RESIDENTS and local governments to handle with the investing corporations taking to expensive litigation which will stall real cleanup and the placing of responsibility with those who are set to make lots of money off of naive, trusting Washintonians. who are known for working IN GOOD FAITH, unlike the Coal Industry's players.

Comment Number: MBTL-HIA-00084-1

Commenter: Jim Steitz

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Even the smallest scope of environmental analysis, the terminal itself and the proximate impact to the local natural and human environment, shows the MBTL proposal to be grossly unacceptable. The coal shipping traffic through the Columbia River, the local air and water pollution, congestion, and destruction of the community ambiance, would transform the local area into a purgatory of industrial misery. The river ecosystem, whose marine mammals and fisheries are already under severe stress from hydroelectric dams, fishing pressure, and water quality degradation, would face another maelstrom of industrial pollution, noise, and physical displacement. The residents of Longview, and other communities for whom this permit would set a precedent, did not necessarily move there to experience one of America's largest commodity export projects operating more hours

than not. Persons wishing a full-time industrial experience have ample other places in America to live, and Longview need not be one of them.***

Comment Number: MBTL-HIA-00085-1

Commenter: Sonya Norton

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

I HAVE STUDIED THE FOLLOWING LETTER AND MATERIALS FROM THE ONGOING ARGUMENT AGAINST EXPANSION OF THE COAL TRANSPORT FACILITIES AROUND VANCOUVER, BRITISH COLUMBIA. <https://www.ncbi.nlm.nih.gov/pubmed/28126388> I AGREE WHOLEHEARTEDLY WITH THE FOLLOWING OBJECTION.

Comment Number: MBTL-HIA-00087-001-1

Commenter: Stephen Curry

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

The negative impacts are local as stated above and world-wide with respect to climate change. This is going the opposite direction that China is going. We will be a 'has-been' economy and country with China technologically on top in the 21st century if we don't get smart and dump coal. If we don't this would be a terrible legacy to leave our children! This selfishness must stop!

Comment Number: MBTL-HIA-00087-002-1

Commenter: Mallory Pratt

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

My biggest concern is that there is no upside to this for anyone except the corporate owners of the coal mines who once again wish to dump the consequences of resource extraction on the less politically powerful. Just say no.

Comment Number: MBTL-HIA-00087-003-2

Commenter: Barbara Scharff

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

We must be focused on clean energy solutions and try to catch up to the technology that is available in the marketplace.

Comment Number: MBTL-HIA-00087-004-1

Commenter: Peter Bergel

Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Coal is a fossil fuel and fossil fuels must be phased out as quickly as possible to prevent the worst aspects of climate change due to global warming.

Comment Number: MBTL-HIA-00087-005-2
Commenter: Carol Carver
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

This type of dirty industry should no longer be permitted.

Comment Number: MBTL-HIA-00087-011-1
Commenter: David Rutiezer
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

It's bad for us and for our future generations. Renewable energy is a better option and is available.

Comment Number: MBTL-HIA-00087-017-1
Commenter: Paul Suter
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

The message of the draft Health Impact Assessment of Millenium's proposed coal port is clear: Millenium should not be allowed to go ahead with its project. Please heed the warnings of the draft's conclusions

Comment Number: MBTL-HIA-00087-018-1
Commenter: Joana Kirchhoff
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

All the reasons stated above.

Comment Number: MBTL-HIA-00087-019-3
Commenter: Megan Richie
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

I ask that the HIA Steering committee recognize the adverse impacts that have already been identified within the EIS and the Cowlitz County Hearings Officer agreed that the MBTL project should be turned down.

Comment Number: MBTL-HIA-00087-021-1

Commenter: Ed Kaiel

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Because of the predatory behavior of fossil fuel extraction leaders and their enablers.

Comment Number: MBTL-HIA-00087-022-2

Commenter: Jennifer Darling

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

And of course, contributing to climate change this late in the game of increasing catastrophes is short-sighted to the point of insanity.

Comment Number: MBTL-HIA-00087-023-2

Commenter: marilee dea

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

As a member of the Oregon Nurses Association (ONA), representing registered nurses in Oregon - we unanimously passed a resolution against coal

Comment Number: MBTL-HIA-00089-1

Commenter: Dave Carman

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

I am using this standard letter because I agree with the concerns but don't have the time to write something comparable myself. Regardless, I say let's put our resources into developing alternative clean energy worldwide, period!

Comment Number: MBTL-HIA-00091-1

Commenter: Kelly McConnell

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

As lifelong resident of the Pacific Northwest I HIGHLY value our local environment. Clean air, water, and land are paramount to the local population and allowing a massive coal export terminal is contrary to OUR WISHES.

Comment Number: MBTL-HIA-00091-2

Commenter: Kelly McConnell

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

STOP sacrificing everything we hold dear to the greedy rich corporations, this is OUR land and WE DO NOT WANT COAL, OIL, OR GAS EXPORT TERMINALS and the pollution and destruction they bring with them.

Comment Number: MBTL-HIA-00094-6

Commenter: Marilee Dea

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

I strongly recommend that you take the necessary steps to ensure that the coal terminal is not built, for the sake of the health of the Highland community and broader community of earth.

Comment Number: MBTL-HIA-00096-40

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

It is highly likely that there will be increases in adverse health and safety outcomes as a result of the project. We ask the HIA Steering Committee, Cowlitz County, and the WA Department of Health to take action to prevent the many unavoidable, significant, and adverse health impacts associated with the MBT coal export proposal.

The Final HIA should provide the basis for clear recommendations from the HIA Steering Committee to prevent construction of this coal terminal, deny future MBT coal export permits, and seek healthy alternatives to the coal export facility. It can also be a tool to protect the health and safety of Cowlitz County residents from future projects that endanger human health and our climate.

Comment Number: MBTL-HIA-00098-1

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Non-technical

Comment Excerpt Text:

I write today on behalf of the Power Past Coal (PPC) coalition. PPC supports and incorporates by reference the comments of Oregon and Washington Physicians for Social Responsibility on the draft HIA for the Millennium Bulk Terminals proposal. Please share our comments with the HIA Steering Committee.

Comment Number: MBTL-HIA-00099-3

Commenter: Inga Fisher Williams

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

I ask that the HIA Steering Committee recognize and affirm that the unavoidable, significant, and adverse impacts

identified in the FEIS and by the Cowlitz County Hearings Officer cannot be mitigated and that the MBTL project should be rejected.

Comment Number: MBTL-HIA-00100-6

Commenter: David Hupp

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

COAL IN OUR GORGE;
GET OUTTA HERE!!!

Comment Number: MBTL-HIA-00101-4

Commenter: Fred Greef

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Cowlitz County knows there will be serious health impacts to its citizens. The biggest coal export proposal in the United States (also biggest potential source of air pollution in the US?) requires more scientific air quality modeling and more air quality monitoring for background levels in the most impacted neighborhoods. The known serious public health impacts locally and globally cry out for more study if not outright proposal denial.

Comment Number: MBTL-HIA-00102-1

Commenter: Patricia Bode

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

I urge the HIA Steering Committee to reject this proposal, based both on information included in the draft and information omitted from the draft.

Comment Number: MBTL-HIA-00102-11

Commenter: Patricia Bode

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Because many of these serious health impacts cannot be mitigated, I urge the HIA Steering Committee, Cowlitz County and the WA Department of Health to recommend rejection of this project and denial of all permits.

Comment Number: MBTL-HIA-00103-11

Commenter: Kevin Baier

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Finally, I ask that the HIA Steering Committee recognize and affirm that the unavoidable, significant, and adverse

impacts identified in the final environmental impact statement by the Cowlitz County Hearings Officer cannot be mitigated and that the MBTL project should be rejected.

Comment Number: MBTL-HIA-00104-8

Commenter: rejean idzerda

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

I ask that the HIA Steering Committee recognize and affirm that the unavoidable, significant, and adverse impacts identified in the FEIS and by the Cowlitz County Hearings Officer cannot be mitigated and that the MBTL project should be rejected. The health of Longview area residents should not be sacrificed.

Comment Number: MBTL-HIA-00105-1

Commenter: Mary Stratton

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I do not want this in my backyard!

Comment Number: MBTL-HIA-00106-1

Commenter: DAVID SCHIESL

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

PLEASE DO NOT KILL U.S. ! PLEASE !

Comment Number: MBTL-HIA-00107-1

Commenter: shirley mccarthy

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I am commenting on the draft HIA for the Millennium (MBTL) coal export project. This is the first draft HIA to be prepared by Cowlitz County in cooperation with the Washington Department of Health and it provides the basis for strong recommendations from the HIA Steering Committee to prevent construction of the MBTL project and forever protect the health of communities from the dangers of coal mining, transport, storage and export. Coal is a killer!

Comment Number: MBTL-HIA-00108-3

Commenter: Donald Lightfoot

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Construction of the MBTL project really should be permanently blocked.

Comment Number: MBTL-HIA-00108-8

Commenter: Donald Lightfoot

Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

The MBTL project should be rejected.

Comment Number: MBTL-HIA-00108-9

Commenter: Donald Lightfoot
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

These taxpayers should not be a "sacrifice zone" to benefit corporate interests. The Millennium company and associate must not calculate "costs of our citizens morbidity and mortality" as just another business expense.

Comment Number: MBTL-HIA-00109-1

Commenter: David Edwards
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

These are my feelings exactly!

Comment Number: MBTL-HIA-00110-1

Commenter: Harry and Jill Brownfield
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Finally, we ask that the HIA Steering Committee recognize and affirm that the unavoidable, significant, and adverse impacts identified in the FEIS and by the Cowlitz County Hearings Officer cannot be mitigated and that the MBTL project should be rejected.

Comment Number: MBTL-HIA-00111-1

Commenter: Liz Washburn
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Please consider what Whatcom County has already accomplished in a similar situation.

Comment Number: MBTL-HIA-00112-1

Commenter: S. Wraight
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Let's work towards a sustainable future!

Comment Number: MBTL-HIA-00113-1

Commenter: Sunny Thompson

Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Make your grandchildren proud of you !

Comment Number: MBTL-HIA-00114-1

Commenter: Tom Strawman
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

It should provide the basis for effective recommendations from the HIA Steering Committee to prevent construction of the MBTL project and forever protect the health of communities from the dangers of coal mining, transport, storage and export.

Comment Number: MBTL-HIA-00115-1

Commenter: Sara Bhakti
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

I am commenting on the draft HIA for the Millennium (MBTL) coal export project. This draft would be strengthened by including the strong recommendations from the HIA Steering Committee to prevent construction of the MBTL project and forever protect the health of communities from the dangers of coal mining, transport, storage and export. Also it is important to protect the health and safety of Cowlitz County residents from future projects that endanger human health and our climate.

Comment Number: MBTL-HIA-00115-3

Commenter: Sara Bhakti
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

These neighborhoods should not become a "sacrifice zone" for coal export that benefits the corporations and investors that back them. The draft shows the proposed project will have huge impacts: Information included in these comments comes from research provided by Power Past Coal, a group whose mission I support. Thank you for this opportunity to comment.

Comment Number: MBTL-HIA-00116-1

Commenter: Edward Laclergue
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Thank you for consideration of these comments Coal as a fuel source is and should be a dying resource. It served us as a fuel source in the past because it was what we had. But it has past it's time of utility. Now we have renewable sources to generate power. With wind, solar, and tidal resources rapidly coming online, coal should become increasingly obsolete. We cannot continue to pollute the only atmosphere we have at the staggering rate

that we have during the hay-day of burning fossil fuels. The last thing we need is another major coal export depot. We can export coal to third world countries, but that only heightens the risk to the one atmosphere that we ultimately all share in common..

Comment Number: MBTL-HIA-00117-1

Commenter: Edward Laclergue

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Thank you for consideration of these comments Coal as a fuel source is and should be a dying resource. It served us as a fuel source in the past because it was what we had. But it has past it's time of utility. Now we have renewable sources to generate power. With wind, solar, and tidal resources rapidly coming online, coal should become increasingly obsolete. We cannot continue to pollute the only atmosphere we have at the staggering rate that we have during the hay-day of burning fossil fuels. The last thing we need is another major coal export depot. We can export coal to third world countries, but that only heightens the risk to the one atmosphere that we ultimately all share in common..

Comment Number: MBTL-HIA-00118-1

Commenter: Maude Laslie

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

It is time for Washington State to look to the future in energy and environmental matters. It is time to walk away from coal.

Comment Number: MBTL-HIA-00119-1

Commenter: Joanne Mayhew

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Thank you . Here is important feedback on the draft HIA for the Millennium (MBTL) coal export prepared by Cowlitz County in cooperation with the Washington Department of Health. I emphatically support recommendations from the HIA Steering Committee to prevent construction of the MBTL project. We must protect the health of communities from the dangers of coal mining, transport, storage and export. A powerful mandate should secure the health and safety of Cowlitz County residents. Monied interests should never be allowed to endanger human health or our climate for their greedy pursuits.

Comment Number: MBTL-HIA-00120-1

Commenter: Joanne Mayhew

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Thank you . Here is important feedback on the draft HIA for the Millennium (MBTL) coal export prepared by Cowlitz County in cooperation with the Washington Department of Health. I emphatically support recommendations from the HIA Steering Committee to prevent construction of the MBTL project. We must protect the health of communities from the dangers of coal mining, transport, storage and export. A powerful

mandate should secure the health and safety of Cowlitz County residents. Monied interests should never be allowed to endanger human health or our climate for their greedy pursuits.

Comment Number: MBTL-HIA-00121-1

Commenter: Joanne Mayhew

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Thank you . Here is important feedback on the draft HIA for the Millennium (MBTL) coal export prepared by Cowlitz County in cooperation with the Washington Department of Health. I emphatically support recommendations from the HIA Steering Committee to prevent construction of the MBTL project. We must protect the health of communities from the dangers of coal mining, transport, storage and export. A powerful mandate should secure the health and safety of Cowlitz County residents. Monied interests should never be allowed to endanger human health or our climate for their greedy pursuits.

Comment Number: MBTL-HIA-00122-1

Commenter: Linda Carroll

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

As a voter who is concerned about health and environmental issues, Although it is lacking in some areas, this draft is a strong first start. It should provide the basis for strong recommendations from the HIA Steering Committee to prevent construction of the MBTL projec, thereby forever protecting the health of communities from the dangers of coal mining, transport, storage and export.

Comment Number: MBTL-HIA-00123-1

Commenter: Jane Middlesworth

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Thank you for this opportunity to comment on the draft HIA for the Millennium coal export project. It should provide the basis for strong recommendations from the HIA Steering Committee to prevent construction of the MBTL project and forever protect health from the dangers of coal mining, transport, storage and export. It can help protect the health and safety of Cowlitz County residents from future projects that endanger health and climate.

Comment Number: MBTL-HIA-00123-12

Commenter: Jane Middlesworth

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Please recognize that the unavoidable, significant, and adverse impacts identified in the FEIS and by the Cowlitz County Hearings Officer cannot be mitigated and that the MBTL project should be rejected. Please prevent what cannot be cured.

Comment Number: MBTL-HIA-00124-1

Commenter: Jane Middlesworth

Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

Thank you for this opportunity to comment on the draft HIA for the Millennium coal export project. It should provide the basis for strong recommendations from the HIA Steering Committee to prevent construction of the MBTL project and forever protect health from the dangers of coal mining, transport, storage and export. It can help protect the health and safety of Cowlitz County residents from future projects that endanger health and climate.

Comment Number: MBTL-HIA-00124-13

Commenter: Jane Middlesworth
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

Please recognize that the unavoidable, significant, and adverse impacts identified in the FEIS and by the Cowlitz County Hearings Officer cannot be mitigated and that the MBTL project should be rejected. Please prevent what cannot be cured.

Comment Number: MBTL-HIA-00125-3

Commenter: CoreyE. Olsen
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

Finally, I request that the HIA Steering Committee recognize and affirm that the unavoidable, significant, and adverse impacts identified in the FEIS and by the Cowlitz County Hearings Officer cannot be mitigated and that the MBTL project should be rejected.

Comment Number: MBTL-HIA-00126-3

Commenter: CoreyE. Olsen
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

Finally, I request that the HIA Steering Committee recognize and affirm that the unavoidable, significant, and adverse impacts identified in the FEIS and by the Cowlitz County Hearings Officer cannot be mitigated and that the MBTL project should be rejected.

Comment Number: MBTL-HIA-00127-1

Commenter: Dorothy Jordan
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

We can prevent these adverse affects by denying this project.

Comment Number: MBTL-HIA-00128-1

Commenter: Greg & Rebecca Durr
Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Finally, we ask that the HIA Steering Committee recognize and affirm that the unavoidable, significant, and adverse impacts identified in the FEIS and by the Cowlitz County Hearings Officer cannot be mitigated and that the MBTL project should be rejected.

Comment Number: MBTL-HIA-00129-1

Commenter: Robin Patten

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Coal is the past. Clean energy is the future.

Comment Number: MBTL-HIA-00130-1

Commenter: Michael Soman

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Thank you for the opportunity to comment on the draft HIA for the Millennium (MBTL) coal export project. The draft is a strong start which should provide the basis for strong recommendations to prevent construction of the MBTL project and protect the health of communities from the dangers of coal mining, transport, storage and export.

Comment Number: MBTL-HIA-00131-1

Commenter: Catherine Caron

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

This draft is a strong first start, but I hope several important elements are included in its revision. Please, revise this draft to include the basis provided by the HIA Steering Committee for its strong recommendations to prevent construction of the MBTL project - namely that the health of communities must be forever protected from the dangers of coal mining, transport, storage and export. These statements can also be a tool to protect the health and safety of Cowlitz County residents from future projects that endanger human health and our climate.

Comment Number: MBTL-HIA-00131-4

Commenter: Catherine Caron

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Please recognize and affirm that the unavoidable, significant, and adverse impacts identified in the FEIS and by the Cowlitz County Hearings Officer cannot be mitigated. The HIA Steering Committee must make it clear that the MBTL project should be rejected. Thank you.

Comment Number: MBTL-HIA-00133-2

Commenter: Mark Sawyer

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Having considered all the above, I ask that the HIA Steering Committee recognize and affirm that the unavoidable, significant, and adverse impacts identified in the FEIS and by the Cowlitz County Hearings Officer cannot be mitigated and that the MBTL project should be rejected. Isn't it true that we must prevent what we cannot cure?

Comment Number: MBTL-HIA-00134-1

Commenter: T J Thompson

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

And recent train derailments and accidents should be enough to clarify that this is a bad transportation risk.

Comment Number: MBTL-HIA-00134-3

Commenter: T J Thompson

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Surely the profit motive should take a back seat to issues of environmental and climate sustainability.

Comment Number: MBTL-HIA-00135-1

Commenter: Roger Imes

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

This proposal is not one to move us forward in any serious or sustainable manner.

Comment Number: MBTL-HIA-00136-1

Commenter: Paul Palla

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

BOTTOM LINE, FOSSIL FUELS = DEATH. THEREFORE, ALL WHO CONTINUE THEIR MADNESS ARE GUILTY OF MURDER!

Comment Number: MBTL-HIA-00137-1

Commenter: Daniel Jaffee

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Thank you for your afternoon.

Comment Number: MBTL-HIA-00138-1

Commenter: Matthew Genaze

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

We have scientific data and long standing evidence of the damage that will be caused by allowing such an action to occur. One of the key roles of government is to preserve public safety. Willfully ignoring clear evidence of an impending catastrophe is a dereliction of duty. Scientists have worked for decades to assemble an incontrovertible body of evidence related to our changing climate, and ignoring that information is insidious. Future generations' resources, health and prosperity is dependent on us acting immediately, significantly and broadly.

Comment Number: MBTL-HIA-00139-1

Commenter: Elizabeth Juvet

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Trump seems to be the only person on this planet that thinks coal is good for our country, or employees, who would be better served to be taught environmentally safer employment. Better for their health, better wages, better for our environment & better for our country.

Comment Number: MBTL-HIA-00140-1

Commenter: Karen Laakaniemi

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

PEOPLE'S HEALTH SHOULD TAKE PRIORITY!!!

Comment Number: MBTL-HIA-00142-1

Commenter: sharon tkacz

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

This draft should provide the basis for strong recommendations from the HIA Steering Committee to prevent construction of the MBTL project. I ask that the HIA Steering Committee recognize and affirm that the unavoidable, significant, and adverse impacts identified in the FEIS and by the Cowlitz County Hearings Officer cannot be mitigated and that the MBTL project should be rejected.

Comment Number: MBTL-HIA-00143-1

Commenter: Donald Rumph

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I am no longer a citizen of Washington State. I lived in Washington for 36 years, Spokane for 17 years, Everett for 10 years and Bellingham for 9 years. I will always call Washington my home. Though raised in Texas and now in North Carolina, the beauty of Washington State, the vibrant communities and the progressive thinking that the state supports and encourages are things I miss. Please do not let a dying industry tear a wound in the state.

Not only the southeast corner, but the entire southern border of the state. For the health, welfare and beauty of the State say no.

Comment Number: MBTL-HIA-00144-1

Commenter: Kristin Noreen

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

From a global perspective, we need to be promoting clean energy, not reviving industries that we are well rid of.

Comment Number: MBTL-HIA-00145-1

Commenter: HUNTER WALLOF

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

we need to make some changes

Comment Number: MBTL-HIA-00146-1

Commenter: Steven Vogel

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Thank you very much for consideration of these comments.

Comment Number: MBTL-HIA-00147-1

Commenter: Beth Jane Freeman

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

There are other viable and far less dangerous alternatives to burning coal.

Comment Number: MBTL-HIA-00149-1

Commenter: Barbara Vinson

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

As a concerned taxpayer, citizen, and healthcare provider, I strongly urge the HIA Steering Committee to reject this proposal, based both on information included in the draft and information omitted from the draft.

Comment Number: MBTL-HIA-00150-1
Commenter: Laura Horowitz
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Every cent that might be spent on this project could easily be spent on renewable, green fuels.

Comment Number: MBTL-HIA-00151-1
Commenter: Patricia Mizutani
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

It is up to all of us to work towards a liveable future for our kids and grandkids. At least 80% of all fossil fuel reserves should be kept in the ground if we want to get a handle on the accumulation of greenhouse gases. Not to will result in countless suffering regionally and internationally. I urge the HIA Steering Committee, Cowlitz County and the WA Department of Health to recommend rejection of this project and denial of all permits.

Comment Number: MBTL-HIA-00152-1
Commenter: Walter Keene
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

I don't live in Oregon; I live in Maine, but I do care about having a good environment. The world no longer needs to burn coal, which as a fossil fuel contributes too much carbon dioxide into the air causing climate change problems. I also care about health everywhere in the world. Don't facilitate use of coal.

Comment Number: MBTL-HIA-00153-1
Commenter: Mary Headrick
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

I urge the HIA Steering Committee to reject the proposed Millennium coal export terminal, based both on information included in the draft and information omitted from the draft.

Comment Number: MBTL-HIA-00154-1
Commenter: Calvin Cole
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Save the planet. !!!!

Comment Number: MBTL-HIA-00155-1
Commenter: Charles Alexander
Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

The world truly does not need more coal. or the

Comment Number: MBTL-HIA-00156-4

Commenter: Gerard Redpath

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

I urge the HIA Steering Committee to reject the proposed Millennium coal export terminal based on information included in the draft and information unfortunately omitted from the draft.

Comment Number: MBTL-HIA-00156-5

Commenter: Gerard Redpath

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Due to the obvious destructive potential of the terminal, and in order to save many, many lives that will be taken over time because of this, I urge the HIA Steering Committee, Cowlitz County and the WA Department of Health to recommend rejection of this project and denial of all permits.

Comment Number: MBTL-HIA-00156-7

Commenter: Gerard Redpath

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Thanks for listening.

Comment Number: MBTL-HIA-00157-1

Commenter: Mike McCool

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I wish to thank you for the chance to comment on the draft Health Impact Assessment (HIA) for the proposed Millennium coal export terminal. I strongly urge the HIA Steering Committee to reject this proposal, based both on information included in the draft and information omitted from the draft. Should it be built, Millennium would be the largest coal export terminal in the country, exporting 44 million metric tons of coal annually.

Comment Number: MBTL-HIA-00158-1

Commenter: Edward McAbee

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

In addition to the above very significant issues the mere fact that a new coal terminal is even being considered in

this era of existential risk from climate change is absurd. Coal is a fuel that has no future in our carbon free future. Any new infrastructure to facilitate coal use should be looked at with a very critical eye.

Comment Number: MBTL-HIA-00160-10

Commenter: Susan Haywood

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

We have industries in the Pacific Northwest that depend on healthy water; we, the people that live here, have chosen to live in this area for its beauty and healthy attitude. We want to hand it down to our children as pristine as possible. Coal is no longer even a tenable energy source if you consider subsidies, clean-up costs, and the public health. We American taxpayers are paying for all of these problems, not the corporate entity.

Comment Number: MBTL-HIA-00162-1

Commenter: stephen couche

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I am a firm believer that the only way our planet can return to its former health is if we can leave all fossil fuels in the ground and convert all of our power plants to renewable energy. Given this scenario, we must reject the construction of the Millennium Coal Terminal!

Comment Number: MBTL-HIA-00163-2

Commenter: Ayesha Gill

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Please do not proceed with this plan. Thank you for reconsidering.

Comment Number: MBTL-HIA-00164-1

Commenter: Alix Keast

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

We also know that the whole world is looking to renewable energy sources, not to coal, for the future.

Comment Number: MBTL-HIA-00165-1

Commenter: Patricia Jerrells

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Millennium is basically criminal on moral grounds. Past time to put existence on earth before the dollar.

Comment Number: MBTL-HIA-00166-1

Commenter: Dr. Mary Ann and Mr. Frank Graffagnin

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

My husband and Because many of these serious health impacts cannot be mitigated, WE urge the HIA Steering Committee, Cowlitz County and the WA Department of Health to recommend rejection of this project and denial of all permits. PLEASE TAKE THE RIGHT, FAIR, JUST, HUMANE AND HEALTHY ACTION AND Support health and climate! Oppose the largest coal export terminal!!!!!!!!!!!!11

Comment Number: MBTL-HIA-00167-1

Commenter: Saran K.

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

This makes sense,

Comment Number: MBTL-HIA-00168-1

Commenter: Genie and Bob McCombs

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

We are the home of the largest coal ash spill in History in Roane county TN. Just ask us how dirty coal ash is in your air and your water!

Comment Number: MBTL-HIA-00169-1

Commenter: Dave/Rita Cross

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

We urge the HIA Steering Committee to reject this proposal, based both on information included in the draft and information omitted from the draft!

Comment Number: MBTL-HIA-00169-3

Commenter: Dave/Rita Cross

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Because many of these serious health impacts cannot be mitigated, we urge the HIA Steering Committee, Cowlitz County and the WA Department of Health to recommend rejection of this project and denial of all permits! We thank you kindly!

Comment Number: MBTL-HIA-00170-1

Commenter: GRACE NEFF

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

In other words Coal Mining should go the way of the buggy whip as it has lost it's usefulness. As far as that goes shipping it overseas should also be ended.

Comment Number: MBTL-HIA-00171-1

Commenter: Phillip J Crabill

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Because many of these serious health impacts cannot be mitigated, I urge the HIA Steering Committee, Cowlitz County and the WA Department of Health to recommend rejection of this project and denial of all permits!!!!!!

Comment Number: MBTL-HIA-00172-1

Commenter: Patricia Guthrie

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

COAL IS A DYING INDUSTRY - IT'S A 19th and 20th CENTURY FOSSIL FUEL, AND HAS NO PLACE IN THIS, THE 21st CENTURY. OTHER THAN THE SERIOUS HEALTH IMPACTS, IT IS HEATING UP OUR PLANET, OUR ONLY HOME. WE SIMPLY HAVE TO STOP ACTING LIKE WE HAVE ANOTHER PLANET TO GO TO AFTER WE'VE ALLOWED THE FOSSIL FUEL INDUSTRY TO DESTROY THIS ONE...

Comment Number: MBTL-HIA-00173-1

Commenter: Linda Carroll

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

As a voter who is informed and concerned about environmental and health issues, I I urge the HIA Steering Committee to reject this proposal, based both on information included in the draft and information omitted from the draft involving the negative impact of coal on human health and our environment. Because many of these serious health impacts cannot be mitigated, I urge the HIA Steering Committee, Cowlitz County and the WA Department of Health to recommend rejection of this project and denial of all permits in fulfillment of your solemn responsibility to Washingtonians and all Americans.

Comment Number: MBTL-HIA-00174-1

Commenter: Richard Weiskopf

Commenter Type: General Public

Classification: Non-technical

Other Sections: 2 5.4 4 2.4

Comment Excerpt Text:

This project would be detrimental to air quality, water quality, human health, and global climate. It should be totally rejected.

Comment Number: MBTL-HIA-00175-1

Commenter: Bill Harris

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

In concise summary the mining, transport, and burning of this coal would be directly harmful to the long term national and world common good. The investment in the coal must be largely lost and our efforts turned to alternative energy development.

Comment Number: MBTL-HIA-00176-1

Commenter: John Kester

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Think carefully about the consequences going forward...

Comment Number: MBTL-HIA-00178-1

Commenter: Cynthia Bower

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

I appreciate this opportunity to comment on the draft Health Impact Assessment (HIA) for the proposed Millennium coal export terminal. Fossil fuel development, extractions, use, and export simply cannot continue to be encouraged or facilitated. Human and planetary health--possibly even survival--depends on this. If built, Millennium would be the largest coal export terminal in the U.S., exporting 44 million metric tons of coal annually.

Comment Number: MBTL-HIA-00178-9

Commenter: Cynthia Bower

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Because many of these serious health impacts cannot be mitigated, I urge the HIA Steering Committee, Cowlitz County and the WA Department of Health to recommend rejection of this project and denial of all permits for it to proceed.

Comment Number: MBTL-HIA-00179-1

Commenter: Susan Blain

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Please do not compromise public health and safety for the profits of a dying industry. If fossil fuels don't die soon, we all will. Face the facts, have a heart, and stop this disastrous project.

Comment Number: MBTL-HIA-00180-1

Commenter: Thomas Talbot

Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Although I did not write the rest of this comment, I agree wholeheartedly with everything stated and ask that the words be read and accepted as if they were from my own hand. It is terribly greedy and very short sighted to develop coal any further, especially with so much of our earth already destroyed and contaminated. I

Comment Number: MBTL-HIA-00181-1
Commenter: Mary Margaret
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Thank you for your time and consideration toward this very important and truly serious issue regarding the coal export terminal, and then please follow through by rejecting this project and by denying all of its permits. Again, thanks!

Comment Number: MBTL-HIA-00182-1
Commenter: Sheri Staley
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

THIS IS SIMPLY NOT ACCEPTABLE.

Comment Number: MBTL-HIA-00183-1
Commenter: George Goffe
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

We as ONE PLANET MUST get away from fossil fuels and start taking better care of the ONLY place in the solar system able to support life as we know it! If we don't do this... we'll all be screwed!

Comment Number: MBTL-HIA-00185-2
Commenter: Emilie Marlinghaus
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Given that, I write to strongly urge the HIA Steering Committee to reject this proposal, based both on information included in the draft and information omitted from the draft.

Comment Number: MBTL-HIA-00186-1
Commenter: John Fitzpatrick
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Because many of these serious health impacts cannot be mitigated, I strongly urge the HIA Steering Committee,

Cowlitz County and the WA Department of Health to recommend rejection of this project and denial of all permits. Respectfully and

Comment Number: MBTL-HIA-00187-1

Commenter: Sam Bergman

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I live all way across the country in Maine, but this proposed coal terminal will have effects on my community and in fact the whole world.

Comment Number: MBTL-HIA-00189-1

Commenter: David Leithauser

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I strongly urge the HIA Steering Committee to reject this proposal, based both on information included in the draft and information omitted from the draft.

Comment Number: MBTL-HIA-00190-1

Commenter: Bobbie VandeGriff

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

The HIA Steering Committee should reject this proposal, the risks to humans and our habitat, based both on information included in the draft and information omitted from the draft are too great to allow this proposal to move forward! Millennium would be the largest coal export terminal in the nation, exporting 44 million metric tons of coal annually.

Comment Number: MBTL-HIA-00191-1

Commenter: John Kavalunas

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

As science becomes better informed and exact, we see coal as a harmful fuel source that needs to be curtailed, not encouraged.

Comment Number: MBTL-HIA-00192-1

Commenter: Joseph Borzelleca

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

While I am not a constituent of any locally elected officials in Oregon the basic truths regarding the risks associated with this endeavor cross state boundaries and speak to the larger issues of proper and thorough

consideration of these risks when evaluating such endeavors. Y'all could in fact be a standard against which other regulatory bodies are compared in such evaluations- choose which kind of standard bearer you want to be remembered as.

Comment Number: MBTL-HIA-00193-1

Commenter: Ron Cox

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Check out the impact of the Petroleum Coke problems that arose from it being piled near the BP refinery along the south shore of Lake Michigan near to Chicago.

Comment Number: MBTL-HIA-00195-1

Commenter: Elizabeth Morris Downie

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

This proposal has been repeatedly rejected for substantial and sound reasons, both for human health protection and for protection of the environment. Only the greed and self-centeredness of the coal industry brings it up again. Please reject it again, firmly and decisively.

Comment Number: MBTL-HIA-00196-1

Commenter: Bryn Hammarstrom

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

As an RN and father with cousins in Oregon, I

Comment Number: MBTL-HIA-00197-1

Commenter: Ellen Cantwell

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

We already are dealing with the long term pollution caused by Hanford in the Columbia basin, please do not allow further degradation of the basin environment to occur. Thank you!

Comment Number: MBTL-HIA-00198-1

Commenter: Elizabeth Hoge

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I write as a physician and parent.

Comment Number: MBTL-HIA-00199-1
Commenter: Bruce Hlodnicki
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

As a physician, I demand the HIA Steering Committee completely reject this proposal, based both on information included in the draft and public health data and research omitted from the draft.

Comment Number: MBTL-HIA-00199-7
Commenter: Bruce Hlodnicki
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

Because many of the unavoidable and serious public health damage this coal export terminal is too costly in American lives and health. I demand the HIA Steering Committee, Cowlitz County and the WA Department of Health recommend rejection of this project and denial of all permits.

Comment Number: MBTL-HIA-00200-2
Commenter: Gregory Monahan
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Please deny this project.

Comment Number: MBTL-HIA-00201-1
Commenter: Tim Duda
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Concerning the Health Impact Assessment (HIA) for the proposed Millennium coal export terminal, I strongly urge the HIA Steering Committee to reject this proposal, based both on information included in the draft and information omitted from the draft.

Comment Number: MBTL-HIA-00203-1
Commenter: Julia Bazar
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

As a former Oregonian and Washingtonian,

Comment Number: MBTL-HIA-00204-1
Commenter: Henry Berkowitz

Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

While it is sad to think of those who work in coal losing their jobs as we find newer and better sources of energy for our needs, it is even sadder that by approving this, you would be helping to destroy a livable planet.

Comment Number: MBTL-HIA-00205-1
Commenter: Rosemarie Carbino
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Here is my comment on the draft Health Impact Assessment (HIA) for the proposed Millennium coal export terminal I urge the HIA Steering Committee to reject this dangerous proposal., my reasons:Millennium would be the largest coal export terminal in the nation, exporting 44 million metric tons of coal annually.

Comment Number: MBTL-HIA-00205-7
Commenter: Rosemarie Carbino
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Because many of these serious health impacts cannot be mitigated, I urge the HIA Steering Committee, Cowlitz County and the WA Department of Health to recommend rejection of this project and to deny all permits.

Comment Number: MBTL-HIA-00206-3
Commenter: Mary Kay Mattson
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Otherwise, I unconditionally oppose any permits for you. I have twice lived in Western Washington State. I have driven to Portland along the Columbia River. There has been enough destruction along that watercourse. I am a former writer editor for the Department of the Interior.

Comment Number: MBTL-HIA-00207-1
Commenter: William Maclaughlin
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

At some point, the needs and desires of majority Americans and individuals of the world need to have priority over that of one industry or corporation.

Comment Number: MBTL-HIA-00208-1
Commenter: Lawrence Jacksina
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Remember, ALL of us, including coal producers, transporters, users you, and all of our families and friends will be affected by this action. Protect us and yourselves.

Comment Number: MBTL-HIA-00209-3

Commenter: Danny Dyche

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Because many of these serious health harms cannot be mitigated, I urge the HIA Steering Committee, Cowlitz County and the WA Department of Health to recommend rejection of this project and denial of all permits. If we don't eliminate the fossil fuel industry soon, it will cause human extinction. The environment is national security; pollution is treason. This crisis would have been solved decades ago without capitalism.

Comment Number: MBTL-HIA-00210-3

Commenter: Barbara Kaye

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

We should be phasing out coal and putting resources in to renewable, green energy. Please deny permits for this harmful project.

Comment Number: MBTL-HIA-00211-1

Commenter: Kristin Fernald

Commenter Type: General Public

Classification: Non-technical

Other Sections: 2 5.4 2.4

Comment Excerpt Text:

I urge you to take serious consideration to the concerns expressed below. I would like to add that the risks both environmentally and to human health are far too great to mitigate the benefits of this central coal terminal. Air quality, water quality, climate change all will be affected.

Comment Number: MBTL-HIA-00211-8

Commenter: Kristin Fernald

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

This is not the legacy we want to leave for the future!

Comment Number: MBTL-HIA-00212-1

Commenter: Connie Lippert

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

It is time to recognize climate change as a threat to our future and to act accordingly.

Comment Number: MBTL-HIA-00213-1

Commenter: Royal Graves

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I am writing to comment on the draft Health Impact Assessment (HIA) for the proposed Millennium coal export terminal.

Comment Number: MBTL-HIA-00214-1

Commenter: Eugene Gorrin

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Thank you for this opportunity to comment on the draft Health Impact Assessment ("HIA") for the proposed Millennium coal export terminal. I respectfully request the HIA Steering Committee to reject this proposal, based both on information included in the draft and information omitted from the draft. Thank you..

Comment Number: MBTL-HIA-00215-1

Commenter: Susan Selbin

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I appreciate the opportunity to comment on the draft Health Impact Assessment (HIA) for the proposed Millennium coal export terminal.

Comment Number: MBTL-HIA-00216-1

Commenter: Carol Jurczewski

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

PLEASE OPPOSE THIS ENVIRONMENTALLY DAMAGING COAL EXPORT TERMINAL!!

Comment Number: MBTL-HIA-00217-1

Commenter: Gail Mizner

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Our country and our world need to be moving forward with clean energy sources, not moving backwards by promoting an outdated and dangerous energy source such as coal.

Comment Number: MBTL-HIA-00218-1

Commenter: Elizabeth Barger

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Thank you for this opportunity to comment on the draft Health Impact Assessment (HIA) for the proposed Millennium coal export terminal. The HIA Steering Committee has enough information included in the draft to deny this coal export terminal.

Comment Number: MBTL-HIA-00218-9

Commenter: Elizabeth Barger

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

These serious health impacts cannot be mitigated, I urge the HIA Steering Committee, Cowlitz County and the WA Department of Health to recommend rejection of this project and denial of all permits.

Comment Number: MBTL-HIA-00220-1

Commenter: Stanley Horwitz

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

We need to end our dependency on coal.

Comment Number: MBTL-HIA-00221-1

Commenter: Wayne Flick

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

For people who don't believe in "climate change" or "global warming", need to get their head out of the sand!!!! Just consider the weather so far this winter, We have had only about two significant snow storms so far here in Colorado and they weren't anything to brag about. Most ski areas have delayed opening this year longer than I can remember and I've live here all my life and I'm over 75 years old.

Comment Number: MBTL-HIA-00223-1

Commenter: Barbara and Jim Dale

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

We urge the HIA Steering Committee to reject this proposal, based both on information included in the draft and information omitted from the draft. Because many of these serious health impacts cannot be mitigated, we urge the HIA Steering Committee, Cowlitz County and the WA Department of Health to recommend rejection of this project and denial of all permits.

Comment Number: MBTL-HIA-00224-1

Commenter: Raymond Moreland

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

If this Government doesn't care about the health and welfare, then you all need to read the Preamble to the Constitution again -"to promote the general welfare" seems to be missing in Mr. Trump, the EPA and the entire Congress.

Comment Number: MBTL-HIA-00226-2

Commenter: Haley Ritter

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Thank you very much for reading this and for your consideration in this vital decision! Happy New Year, 2018 :)

Comment Number: MBTL-HIA-00227-1

Commenter: N. Dumser

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

No more fossil fuels. Support sustainable energy- solar, wind, water!

Comment Number: MBTL-HIA-00229-1

Commenter: Janet Matthews

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

As a parent, early childhood educator and advocate, and person of faith

Comment Number: MBTL-HIA-00230-1

Commenter: Lois Johnston

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

The economic benefit to a small number of people does not come near to offsetting the cost to human health.

Comment Number: MBTL-HIA-00231-1

Commenter: m'lou christ

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Thank you for this opportunity to comment on the draft health impact assessment (HIA) for the Millennium (MBTL) coal export project to be prepared by Cowlitz County in cooperation with the Washington Department of Health. This strong first draft provides for clear recommendations from the HIA Steering Committee to prevent construction of the MBTL project and forever protect the health of communities from the dangers of coal mining, transport, storage and export.

Comment Number: MBTL-HIA-00232-1

Commenter: Gabe Magtutu

Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

As a citizen who is concerned about the Earth's overall health, I am particularly worried about the damage that the coal industry has wrought on OUR Earth.

Comment Number: MBTL-HIA-00234-1
Commenter: Joel Vignere
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

For the health of the country and it's citizens, we need to end coal as soon as possible.

Comment Number: MBTL-HIA-00236-1
Commenter: Phyllis Dolph
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

We also just need to keep coal in the ground because of climate change. What could be more clear?

Comment Number: MBTL-HIA-00237-1
Commenter: Stuart Halpern
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Please find the courage to do the right thing. While hard, it is the right thing to do and the only thing that matters in the long run. You can tell your grandchildren you were strong when it was important to their future.

Comment Number: MBTL-HIA-00243-1
Commenter: Deborah Muth
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

My family lives 1/2 mile from a railroad crossing and we already have coal trains coming through day and night...more would be unbearable!

Comment Number: MBTL-HIA-00245-1
Commenter: Marilyn McCaulley
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Protect our health and the health of our planet by prevention of construction of the Millenium coal export facility! The HIA, while not a legal tool, can help inform and strengthen future decisions. We totally appreciate this opportunity to comment on the draft health impact assessment (HIA) for the Millennium (MBTL) coal export project.

Comment Number: MBTL-HIA-00246-1
Commenter: Lee Schmidt
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

I support the following message as my comments in the draft health impact assessment:

Comment Number: MBTL-HIA-00247-1
Commenter: Lee Schmidt
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

I support the following message as my comments in the draft health impact assessment:

Comment Number: MBTL-HIA-00248-1
Commenter: Shelley Dahlgren
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

The age of coal is nearly over; the sooner the better.

Comment Number: MBTL-HIA-00249-1
Commenter: Jennifer Nitz
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

Mr. Fazio, I am writing to comment on the draft health impact assessment (HIA) for the Millennium (MBTL) coal export project. This document should provide the basis for clear recommendations from the HIA Steering Committee to prevent construction of the MBTL project, and protect the health of communities from the dangers of coal mining, transport, storage and export. It must be a tool to protect the health and safety of Cowlitz County residents from future projects that endanger our health and climate.

Comment Number: MBTL-HIA-00249-8
Commenter: Jennifer Nitz
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

The HIA Steering Committee must recognize and affirm that the unavoidable, significant, and adverse impacts identified in the final environmental impact statement by the Cowlitz County Hearings Officer cannot be mitigated and that the MBTL project must be rejected.

Section 2 - Air Quality

Comment Number: MBTL-HIA-00017-1

Commenter: Kelly McConnell

Commenter Type: General Public

Classification: Technical

Other Sections: 5.4

Comment Excerpt Text:

Above ALL, we want CLEAN air and water. Coal exports are the antithesis of clean air and water.

Comment Number: MBTL-HIA-00030-2

Commenter: James McClean

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Yes pollution is an issue, but look at all the industry already here. Our air quality is still well within healthy standards and adding a couple trains per day wont make any significant damage.

Comment Number: MBTL-HIA-00039-003-7

Commenter: Richard Creswell

Commenter Type: General Public

Classification: Non-technical

Other Sections: 5.2 4.3 4.1

Comment Excerpt Text:

Air pollution, Mercury/water/ fish / playground pollution, Global climate change upon us now

Comment Number: MBTL-HIA-00039-004-1

Commenter: A Bonvouloir

Commenter Type: General Public

Classification: Non-technical

Other Sections: 5.4 4

Comment Excerpt Text:

Air, water, land, and indigenous people.

Comment Number: MBTL-HIA-00039-022-1

Commenter: Georgia Shankel

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Breathing bad air costs the one breathing

Comment Number: MBTL-HIA-00039-108-1

Commenter: Kasey Zimmer-stucky

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Poor air quality is linked to a number of health problems.

Comment Number: MBTL-HIA-00050-1

Commenter: Barbara Gottlieb

Commenter Type: General Public

Classification: Non-technical

Other Sections: 4 5.1 5.5

Comment Excerpt Text:

Having visited Oregon's Columbia River as a tourist with my family, I would like to share my concerns about this proposal. It would be extremely harmful to the health of everyone living in the river valley to have this massive coal export terminal built. The terminal as well as the related train traffic would (as your HIA indicates) pose real threats of cancer, air pollution, noise pollution and contamination of food sources.

Comment Number: MBTL-HIA-00072-1

Commenter: Sabra Hull

Commenter Type: General Public

Classification: Non-technical

Other Sections: 4 5.4

Comment Excerpt Text:

The draft HIA prepared by Cowlitz County and the Washington Department of Health presents some alarming analysis of potential air and water quality issues, and consequent potential health impacts of this proposal. Both human and aquatic communities would be affected, and I see no remedy for these impacts.

Comment Number: MBTL-HIA-00087-014-1

Commenter: Jim Plunkett

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Air pollution in our area is already significant.

Comment Number: MBTL-HIA-00096-10

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

3. AIR QUALITY MONITORING: The DHIA does not address the problem of grossly inadequate air quality monitoring in the affected areas, either for purposes of assessment or ongoing monitoring.

Comment Number: MBTL-HIA-00096-27

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

3. AIR QUALITY MONITORING

The discussion of air pollutant effects in Section II (Health Evaluation) and again in Appendix I (Air Quality) are based on baseline monitoring data in Longview from 2013 and 2016. The source of this monitoring data is from a single monitor stationed 1.5 miles from the project site. [4, page 689] This is not only an inadequate assessment of baseline air quality in the area, but is also inadequate to assess any degradation in air quality due to the coal export terminal, should MBT be allowed to proceed. Also lacking in the DHIA is information about wind speed, direction and impacts of inversions on air quality near the terminal and in Cowlitz County.

See page 11 of Oregon and Washington Physicians for Social Responsibility Comments on Draft Environmental Impact Statement for Millennium Bulk Terminals Longview. [Appendix II]

Comment Number: MBTL-HIA-00100-1

Commenter: David Hupp

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Carbon footprint of the Longview coal export terminal

What is the statewide carbon footprint for Washington state?

The carbon footprint for a state is the greenhouse gas carbon dioxide released by activity from all economic sectors (residential, commercial, industrial, government, military, and transportation). During 2010 Washington economic activity released 76.64 metric short tons of carbon dioxide. [Footnote 1. www.epa.gov/statelocalclimate/documents/pdf/CO2FFC_2010.pdf]

What is the built coal export capacity of the proposed terminal?

The proposed export terminal is the Millennium Bulk Terminal to be located at Longview WA, owned by Ambre Energy and Arch Coal. Its built capacity throughput is 44 million short metric tons per year. [Footnote 2. The Millennium Bulk Export Terminal application.] The Powder River coal exported through this terminal when burned in an East Asian (likely Chinese) coal plant would release 88 million short metric tons of carbon dioxide per year. [Footnote 3. The Bureau of Land Management (BLM), which owns the land upon which Powder River coal is mined, says one ton of this coal combusts to produce 1.7 tons of carbon dioxide. However, the U.S. Energy Information Administration report Carbon Dioxide Emission Factors for Coal (1994) (www.eia.gov/coal/production/quarterly/co2_article/co2.html) says, "Complete combustion of 1 short ton (2,000 pounds) of this coal will generate about 5,720 pounds (2.86 short tons) of carbon dioxide." We use 2 short tons as a happy medium between the two figures for ease of calculation. It is important to note that these emission figures apply only to the emissions from combustion of the coal in East Asian coal plants. The data do not include the substantial carbon emissions produced by mining, transporting and handling the coal, including operation of Millennium.]

How much does the proposal expand the state's carbon footprint?

The arithmetic is straightforward: 88 million tons/76.64 million tons = 1.15.

Millennium would more than double the state's carbon footprint, increasing by 115%.

Comment Number: MBTL-HIA-00100-2

Commenter: David Hupp

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Conclusion: the Millennium proposal would increase Washington state's total carbon footprint by 115% to produce a miniscule fraction of the state's employment.

Comment Number: MBTL-HIA-00100-4

Commenter: David Hupp

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

How does the Millennium proposal compare to President Obama's greenhouse emission reduction goals for the Federal Government?

"In 2010, President Obama announced a Federal Government-wide target of a 28 percent reduction by 2020 in direct GHG emissions, such as those from fuels and building energy use, and a target 13 percent reduction by 2020 in indirect GHG emissions, such as those from employee commuting and landfill waste. Combined, these two goals could result in a cumulative reduction of 101 million metric tons of CO2 emissions" [Footnote 5. Obama 2009 Executive Order 13514 (www.whitehouse.gov/administration/eop/ceq/sustainability/fed-ghg)]

The Millennium emissions would be 87% of these national goals.

Comment Number: MBTL-HIA-00100-5

Commenter: David Hupp

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

How does the Millennium proposal compare to the State of Washington's greenhouse emissions reduction goals?

State law specifies a return to 1990 levels by 2020, a reduction of 10 million metric short tons per year. [Footnote 4. Washington statute (RCW 70.235.020) and Governor Gregoire Executive Order EO 07-02.]

The Millennium carbon footprint equals nearly nine times this state goal, 880%.

Comment Number: MBTL-HIA-00101-5

Commenter: Fred Greef

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The EIS suggested that the PRB coal would simply find another port if not Longview, so that Global Warming impacts were not preventable. That is a questionable assumption given the newly awakened interest in west coast communities to stop all such proposals with huge greenhouse gas emissions and salmon and water pollution

threats. The American Indian Movement has also awakened. Many tribal nations have joined the fight and will not give up. An EIS is required to assume worst case impacts, when there is some doubt. I think there is enough doubt about whether federal air quality standards can be met to simply deny this proposal.

Comment Number: MBTL-HIA-00153-2

Commenter: Mary Headrick

Commenter Type: General Public

Classification: Technical

Other Sections: 4 5.1 5.5

Comment Excerpt Text:

The HIA shows that Millennium would pose real threats of cancer, air pollution, noise pollution and contamination of food sources:

Comment Number: MBTL-HIA-00156-1

Commenter: Gerard Redpath

Commenter Type: General Public

Classification: Technical

Other Sections: 4 5.1 5.5

Comment Excerpt Text:

The HIA shows that it would pose real threats of cancer, air pollution, noise pollution and contamination of food sources

Comment Number: MBTL-HIA-00157-2

Commenter: Mike McCool

Commenter Type: General Public

Classification: Non-technical

Other Sections: 4 5.5

Comment Excerpt Text:

The HIA has shown that it would pose real threats of cancer, air pollution, and contamination of food sources:

Comment Number: MBTL-HIA-00160-8

Commenter: Susan Haywood

Commenter Type: General Public

Classification: Non-technical

Other Sections: 4 5.1 5.5

Comment Excerpt Text:

The HIA shows that it would pose real threats of cancer, heart and lung disease, neurological impairment, air pollution, noise pollution and contamination of food sources:

Comment Number: MBTL-HIA-00174-1

Commenter: Richard Weiskopf

Commenter Type: General Public

Classification: Non-technical

Other Sections: 5.4 4 2.4 1

Comment Excerpt Text:

This project would be detrimental to air quality, water quality, human health, and global climate. It should be totally rejected.

Comment Number: MBTL-HIA-00178-2

Commenter: Cynthia Bower

Commenter Type: General Public

Classification: Technical

Other Sections: 4 5.1 5.5

Comment Excerpt Text:

The HIA concludes that it would pose significant threats of cancer, air pollution, noise pollution and contamination of food sources.

Comment Number: MBTL-HIA-00199-2

Commenter: Bruce Hlodnicki

Commenter Type: General Public

Classification: Technical

Other Sections: 4 5.1 5.5

Comment Excerpt Text:

The HIA shows that it would increase the threats of cancer, air pollution, noise pollution and contamination of food and water sources:

Comment Number: MBTL-HIA-00205-2

Commenter: Rosemarie Carbino

Commenter Type: General Public

Classification: Non-technical

Other Sections: 4 5.1 5.5

Comment Excerpt Text:

The HIA already shows that it would pose real threats of cancer, air pollution, noise pollution and contamination of food sources:

Comment Number: MBTL-HIA-00211-1

Commenter: Kristin Fernald

Commenter Type: General Public

Classification: Non-technical

Other Sections: 1 5.4 2.4

Comment Excerpt Text:

I urge you to take serious consideration to the concerns expressed below. I would like to add that the risks both environmentally and to human health are far too great to mitigate the benefits of this central coal terminal. Air quality, water quality, climate change all will be affected.

Comment Number: MBTL-HIA-00219-1

Commenter: Wesley Struebing

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

It also doesn't take into account that exporting coal will ultimately not clean up anyone's air, including ur own.

Comment Number: MBTL-HIA-00222-1

Commenter: Tom Nieland

Commenter Type: General Public

Classification: Non-technical

Other Sections: 5.4

Comment Excerpt Text:

Stop poisoning air and water!

Section 2.1 - Coal dust

Comment Number: MBTL-HIA-00018-5

Commenter: Peter Kerr

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

*Significant coal dust and diesel particulate matter (DPM) exposures. Increased DPM exposures increase hospitalization from heart and lung disease, asthma attacks, pneumonia, decline in lung function, asthma in children, plus growing evidence of stroke, Type 2 diabetes, neurological and cognitive impairment, and pre-term and low-birth weight babies.

Comment Number: MBTL-HIA-00021-4

Commenter: Roger Wechsler

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Significant coal dust and diesel particulate matter (DPM) exposures that can lead to death, hospitalization from heart and lung disease, asthma attacks, pneumonia, decline in lung function, asthma in children, plus growing evidence of stroke, Type 2 diabetes, neurological and cognitive impairment, and pre-term and low birthweight babies. (p. 9)

Comment Number: MBTL-HIA-00022-2

Commenter: Stephen Bachhuber

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I am particularly concerned about the fine particulates of diesel exhaust and the larger particulates of coal dust and its accompanying heavy metal deposition. My friends will suffer, and many will die before their time. Children are at particular risk.

Comment Number: MBTL-HIA-00024-1

Commenter: Laura van Fleet

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

This project does much to negatively affect the health of people living along the transport route, in terms of coal dust from train cars,

Comment Number: MBTL-HIA-00029-3

Commenter: William Newmann

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Significant coal dust and diesel particulate matter (DPM) exposures that can lead to death, hospitalization from

heart and lung disease, asthma attacks, pneumonia, decline in lung function, asthma in children, plus growing evidence of stroke, Type 2 diabetes, neurological and cognitive impairment, and pre-term and low birthweight babies. (p. 9)

Comment Number: MBTL-HIA-00037-1

Commenter: Beverly Elaine Sharp

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

You know as well as I know that coal dust can not be contained and will blow in the wind everyday in the evening when the winds blows off the river. You know that so act accordingly and protect citizens. Research McDuffie coal terminal located in Mobile, Alabama. Proof that coal dust cannot be contained.

Comment Number: MBTL-HIA-00038-3

Commenter: Don Steinke

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

At the most recent board meeting of the Southwest Washington Clean Air Agency, staff presented a report. Please include it your HIA. It says: A. Study Finds Connection Between Fine Particulates and Birth Defects (December 11, 2017) - A study from researchers based at the University of Cincinnati and the Cincinnati Children's Hospital has found an increased risk of birth defects for mothers who are exposed to fine particulates (PM2.5) around the time of conception. The study estimated PM2.5 exposure levels from two months prior to conception through the first two months of pregnancy by correlating PM2.5 data collected from 57 monitoring stations throughout Ohio with the residential addresses of new mothers. The researchers found the highest defect risks for exposures occurring between one month prior to and one month after conception. The study, entitled Periconception Exposure to Air Pollution and Risk of Congenital Malformations, was published in the Journal of Pediatrics. For further information: http://www.4cleanair.org/sites/default/files/Documents/Periconception_PM_Exposure_Study_Dec_2017.pdf The report concludes: Although the increased risk with PM2.5 exposure is modest, the potential impact on a population basis is noteworthy because all pregnant women have some degree of exposure. (J Pediatr 2017)

Comment Number: MBTL-HIA-00039-010-1

Commenter: Adina Parsley

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

As a retired physician, I am well aware of the harms of coal dust in our air, water and bodies.

Comment Number: MBTL-HIA-00039-020-1

Commenter: Carolyn Treadway

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Because I must breathe clean air. Coal dust air makes me literally sick.

Comment Number: MBTL-HIA-00039-025-1

Commenter: Mary Shaughnessy

Commenter Type: General Public

Classification: Non-technical

Other Sections: 4 5.1

Comment Excerpt Text:

Cancer rates will increase in populations along the coal line, coal dust and diesel particulate matter exposure will jeopardize the health of communities along the rail line, and the noise they will experience will further torment them.

Comment Number: MBTL-HIA-00039-029-1

Commenter: Anne Elkins

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Coal dust and increased train traffic, increased green house gasses, and potential pollution of land and water, are just some of the many concerns I have about use and transporting of coal.

Comment Number: MBTL-HIA-00039-030-1

Commenter: Elaine Sharp

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Coal dust can not be contained because the particulates are too small. I am very concerned of having a city coated with coal dust which will vastly prohibit a healthy air environment.

Comment Number: MBTL-HIA-00039-031-1

Commenter: Sonia ImMasche

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Coal dust causes all kinds of respiratory distress. We need to avoid this type of hazard.

Comment Number: MBTL-HIA-00039-032-1

Commenter: Sarah McDevitt

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Coal dust in our air and water...into our crops, animals. The danger if accidents and spills.

Comment Number: MBTL-HIA-00039-033-1

Commenter: Susan Bistline

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

coal dust is an environmental hazard especially for people with any type of lung problems. Where I live in north Idaho, we have many, many coal and oil trains going through everyday, and this includes a railroad crossing approximately one mile long over a beautiful pristine lake--that dust is going right into our lake. These trains are very much disliked by most everyone in the area--also because they have increased the volume of the train whistles which can about blow you out of your house in some areas.

Comment Number: MBTL-HIA-00039-061-1

Commenter: Wesley Banks

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Having lived in coal mining communities I am aware of the coal dust that pervades everything. Having hitched rides on coal cars as they were moving while I was a kid I know that the dust and small chips fly off as the cars move.

Comment Number: MBTL-HIA-00039-062-1

Commenter: rick rappaport

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Hmmm toxic coal dust from hundred of more train cars daily,

Comment Number: MBTL-HIA-00039-069-1

Commenter: Charlotte Sines

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I am concerned about coal export's impact to public health because I breathe and I would prefer to not breathe coal dust. Coal dust causes many bad affects to health and if the coal mine owners think it is so great, why don't they live next to and work closely to the coal?

Comment Number: MBTL-HIA-00039-072-1

Commenter: Richard Weiss

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I am concerned for the negative health effects on humans residing near transport pathways. I am equally conerned for the negative health effects on the environment which includes valuable fisheries as well as other animal and plant life. At the least, we should cover all coal cars effectively to prevent coal dust and vapor release from the containers while enroute.

Comment Number: MBTL-HIA-00039-073-1

Commenter: Therese Livella

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I am deeply concerned about fine particulate matter

Comment Number: MBTL-HIA-00039-074-1

Commenter: Nick Engelfried

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I am especially concerned about the health effects associated with coal dust, a substance that contains numerous carcinogens.

Comment Number: MBTL-HIA-00039-076-1

Commenter: Tylor Hankins

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I don't want coal dust in the air I breathe. This particulate matter will be kicked up by high winds and then be confined to the Columbia River valley boxed in by hills/mountains where it will negatively impact humans and fish like salmon, steelhead, and sturgeon.

Comment Number: MBTL-HIA-00039-079-1

Commenter: Julie Larson

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I grew up in the dirty air of New York City where coal used for heating. My dad died of lung cancer & my lungs are impaired. Please do not expose Cowlitz county residence to toxic coal dust,

Comment Number: MBTL-HIA-00039-081-2

Commenter: Arlene Baker

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Children are especially sensitive, as their systems are not fully formed. There is no way to have a coal export terminal without exposing the local populace to coal dust. This will cause immense health problems to the local populace, all for some corporation's profit.

Comment Number: MBTL-HIA-00039-082-1

Commenter: Joann Macey

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I have heart disease which would cause further complications for me with the coal dust from these trains.

Comment Number: MBTL-HIA-00039-085-2

Commenter: Beth Hartwell

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

The rail lines pass through much of the country, including where I live, on their way to Cowlitz county, and coal dust and train wrecks do impact health negatively. Be it cancer, hospitalization from heart and lung disease, asthma attacks, pneumonia, decline in lung function, asthma in children, plus growing evidence of stroke, Type 2 diabetes, neurological and cognitive impairment, and pre-term and low-birth weight babies.(p.9) all leading to death, all this in an area of with already low health indicators.

Comment Number: MBTL-HIA-00039-094-1

Commenter: Brian Gunn

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Like thousands of other kids, my daughter has asthma. While her school should have been a safe place to study and learn, because the school is close to a rail yard full of coal trains, her school instead is a place where she is exposed to coal dust that exacerbates her illness making it difficult for her to concentrate. Many schools, playgrounds and parks where thousands of kids study and play are close to rail lines that would be used to transport more coal if the Millennium coal export project is approved and built.

Comment Number: MBTL-HIA-00039-098-1

Commenter: Enid Cox

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

My grand daughter was on oxygen and had difficulty breathing. The coal dust would make it even more difficult for her to breath.

Comment Number: MBTL-HIA-00039-103-2

Commenter: Krista Mead

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Coal dust we already know about, but lets not forget the dangers of the coal particulate matters, that, like pollen, enter unseen into the lungs, then the bloodstream and unfortunately the brain. As particulates can travel up to ten miles from their source, this will impact every elementary student in Longview, whose respiratory rates are much higher than mature lungs, thus breathing in more toxins as they spend more time outdoors. The toxins in the particulate matters will impact their brain development (lower test scores, lower IQ), and impact their nervous systems, behavior control and general immune systems.

Comment Number: MBTL-HIA-00039-106-1

Commenter: JEFFREY SANDERS

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

people should not be exposed to unhealthy coal dust.

Comment Number: MBTL-HIA-00039-112-3

Commenter: Lisa Waldvogel

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Significant coal dust and diesel particulate matter (DPM) exposures that can lead to death, hospitalization from heart and lung disease, asthma attacks, pneumonia, decline in lung function, asthma in children, plus growing evidence of stroke, Type 2 diabetes, neurological and cognitive impairment, and pre-term and low-birth weight babies. (p.9)

Comment Number: MBTL-HIA-00039-113-1

Commenter: Gary Lindstrom

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

The 500,000 metric tons of coal in open storage will dust and likely well more than anticipated because a coal terminal of this magnitude has not been experienced. The proponent will vastly underestimate fugitive emissions of micron size and nearly invisible.

Comment Number: MBTL-HIA-00039-114-1

Commenter: Carol Hiltner

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

The damage that coal does to health is cumulative because the toxic coal dust is persistent in the environment.

Comment Number: MBTL-HIA-00039-115-1

Commenter: Carol Hiltner

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

The damage that coal does to health is cumulative because the toxic coal dust is persistent in the environment.

Comment Number: MBTL-HIA-00039-120-1

Commenter: Paul & Susan Ballinger

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

The increase in coal dust and diesel particulate matter exposures will result in significant health risks for residents along the rail line and especially in Cowlitz County.

Comment Number: MBTL-HIA-00039-124-1

Commenter: Debby Mumm Felnagle

Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

The train carrying coal cars passes right next to my house. Every 3-4 months I have to clean the blackened filters of the heat pump of our house. If this is in the filters, what is in my lung?

Comment Number: MBTL-HIA-00039-133-1
Commenter: D.G. SIFUENTES
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

This affects pretty much anyone who resides on this earth since we all know coal products are highly toxic and become airborne that travel with

Comment Number: MBTL-HIA-00039-150-1
Commenter: Patty Larsen
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

We who live down stream from all this potential pollution will be dealing with the effects of this plant in many ways. Coal dust in the air and river will have a huge impact on us and Salmon.

Comment Number: MBTL-HIA-00039-154-1
Commenter: Jason Knopp
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Why should we be subjected to coal dust!

Comment Number: MBTL-HIA-00039-4
Commenter: Jasmine Zimmer-Stucky
Commenter Type: Organization
Classification: Technical

Comment Excerpt Text:

- Significant coal dust and diesel particulate matter (DPM) exposures that can lead to death, hospitalization from heart and lung disease, asthma attacks, pneumonia, decline in lung function, asthma in children, plus growing evidence of stroke, Type 2 diabetes, neurological and cognitive impairment, and pre-term and low-birth weight babies.(p.9)

Comment Number: MBTL-HIA-00040-3
Commenter: Pete Von Christierson
Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Significant coal dust and diesel particulate matter (DPM) exposures that can lead to death, hospitalization from heart and lung disease, asthma attacks, pneumonia, decline in lung function, asthma in children, plus growing evidence of stroke, Type 2 diabetes, neurological and cognitive impairment, and pre-term and low birthweight babies. (p. 9).

Comment Number: MBTL-HIA-00050-2

Commenter: Barbara Gottlieb

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Particulate matter from coal dust as well as from diesel engines are harmful to the respiratory system, the heart and the nervous system. Exposure can contribute to death from lung cancer, pulmonary diseases including COPD, acute myocardial infarction, congestive heart failure, and ischemic stroke. In addition, it is associated with all-cause mortality as indicated in the 12/26.2017 Journal of the American Medical Association.

Comment Number: MBTL-HIA-00057-1

Commenter: JoAnn Amundson

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I would like to focus my comments on the adverse impacts from PM 2.5 and DPM .2.5 if this terminal is built. Baseline data in the HIA already indicate that Cowlitz County has higher mortality rates than WA state from conditions related to particulate matter and DPM. Deaths from heart disease were 7% higher than the state average; deaths from combined chronic lower respiratory diseases were a remarkable 52% higher; and the mortality rate of trachea, bronchial and lung cancers combined was 25% higher compared to the state rate. On top of this, the HIA modeling concentrations for PM 2.5 are estimated to increase by 62% per 24 hours. While the report states that this is "within NAAQS requirements", that is barely the case: 89% compared to NAAQS limits.

Studies have shown (as acknowledged in the HIA report) that adverse effects have been documented from PM 2.5 well below current NAAQS limits.

In fact a very recent report in JAMA of a large study showed that for each day-to-day increase of as little as 10 micrograms per square meter of PM 2.5, there was a striking 1.05% increase in deaths. The effect was greater for the elderly, low-income people and women.

That figure of 10 micrograms of PM 2.5 in the JAMA study is almost exactly the same average increase per 24 hours as projected by the HIA modeling report - 11.9 micrograms. Further, the JAMA observed that these risks "remained significant even at levels below what the EPA considers safe."

To conclude: why would this community condone the installation of a project that will almost certainly increase disease and deaths from illnesses that ALREADY have much higher rates than the WA average?

We urge the officials of Cowlitz County to deny the permits for this project, putting the health needs of residents before economic considerations.

Comment Number: MBTL-HIA-00063-2

Commenter: Michael Gochfeld

Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

Air pollution including carcinogenic particulates and respiratory disease is the biggest health impact.

Comment Number: MBTL-HIA-00066-2

Commenter: Peter Cornelison
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

I keep hearing from terminal proponents that coal dust is a red herring but I can take you to multiple sites along the BNSF main line where coal dust and pellets have been and continue to polluting the land and river.

Comment Number: MBTL-HIA-00074-3

Commenter: Janice Doherty
Commenter Type: General Public
Classification: Non-technical
Other Sections: 4 4.2 5.2

Comment Excerpt Text:

The Hanford area was designated as a "national sacrifice zone" in matters related to the development of nuclear power. Spokane County is just one area of eastern WA impacted with higher cancer rates related to fallout from "The Green Run" and other radiation experiments and mistakes at Hanford. Cowlitz County should not be designated the current "sacrifice area" for supporting the coal industry as it gradually becomes obsolete. Examples: negative health effects from inhaling coal dust and diesel; increased wait times for emergency response personnel waiting for train crossings; further deterioration of fish and seafood harvests, particularly as related to local tribes who have already suffered significant harm to their fishing and cultural sites

Comment Number: MBTL-HIA-00076-5

Commenter: Diane L. Dick
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

Below is a comment I made and the response in the FEIS. (BTW, I have yet to find the Master Response.)

Comment CD-140

According to table 5.6-5 of the Millennium Bulk Terminal DEIS the maximum annual average emissions of particulate matter from operations of the coal terminal from global project areas' sources is 7.08 tons. This would be a miraculous achievement if compared with actual emissions reports from operating coal terminals. Hay Point Coal Terminal in Australia has been in operation for almost 50 years and has been addressing coal dust and pollutant emissions the entire time.

They promote the most current dust suppression system. There is a long record of emissions data. Their rail and ship operations are similar to that proposed to MBT and their terminal capacity until recently was the same, 44 million metric tons. Hay Point Coal Terminal self-reported to the Australian National Pollutant Inventory for 2014/15 pm 10 air emissions of 140,000 kilograms or 154 tons or more than 20 times what the MBT DEIS predicts. Pm 2.5 emissions have a similar wide discrepancy. MBT 2.4 tons, HPCT 19 tons. Which data has more credibility? The important data in the MBT DEIS is too good to be true and not to be believed. (TRANS-LV-M2-

00056)

Response to CD-140

Refer to Response to CD-17.

Response to CD-17

Emissions for other coal export terminals, such as the Hay Point Terminal in Australia, cannot be applied directly to the Proposed Action. Numerous factors, including facility throughput, coal stockpile size, meteorological conditions, and dust-suppression techniques, affect estimated coal dust emissions.

The Air Quality Impact Assessment Report (Newcastle Coal Infrastructure Group 2006) prepared for the Hay Point Terminal was reviewed during the preparation of the Draft EIS. The Hay Point assessment used the same approach for calculating emissions as was used in the Draft EIS analysis. The difference in

emissions results are related to the considerably larger total area covered by the coal stockpiles at the Hay Point terminal (153.5 acres versus 50.3 acres for the Proposed Action), as well as other site-specific factors including number of rainy days per year, silt content of the coal, and percentage of winds greater than 5.4 meters per second. The most important difference is the Hay Point terminal does not employ watering of the coal piles for coal dust suppression, which reduces emissions by an estimated 90% (Western Governors' Association 2006).

Refer to the Master Response for Particulate Matter and Coal Dust Analyses for a summary of the coal dust analysis and conclusions, applicable regulatory standards related to human health, and how other human health concerns are being considered outside of the EIS.

Note the response contains discrepancies of fact. HIA states 75 acre stockpile size, not 50.3 acres.

Water sprinkler systems are used on stockpiles at Hay Point. "DBCT also use extensive processes to mitigate dust such as: moisture addition in all transfer points; computer controlled stockyard sprinkler systems which are synchronised with real time weather events; and stockyard veneering utilising a natural benign gum based product." <http://www.dbctm.com.au/environment.aspx>

Regarding throughput, Hay Point is directly comparable. "In 2014/15, total throughput for the port was 114,976,504 tonnes, comprising 71,551,704 tonnes through DBCT and 43,424,800 tonnes through HPCT. The continued growth in central Queensland coal production ensured that the port retained its status as one of the largest coal export ports in the world." From "Port of Hay Point Port Handbook"

There are air monitoring reports for Hay Point that includes dust deposition data and map of monitoring sites around the terminals. <https://nqbp.com.au/sustainability/research-and-reports>

Also attached is "Coal Dust and Health in the MacKay Region," Feb 2013, the area that includes Hay Point, produced on the prospect of new and expanded coal terminal operations.

Sightline produced an overview of Australia's coal dust problems in a 2012 story.

<http://www.sightline.org/2012/02/07/australias-coal-dust-problem/>

Less than a year ago there was a large spill of coal at the Hay Point Terminal. <http://www.abc.net.au/news/2017-02-08/great-barrier-reef-coal-spillage-discovered-in-waters/8248546>

Comment Number: MBTL-HIA-00083-1

Commenter: John Nettleton

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Allowing transit of coal through the gorge is double jeopardy for those of us living in this area. First, the coal dust that be in our air from the transit,

Comment Number: MBTL-HIA-00087-004-2

Commenter: Peter Bergel

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

In addition, exposure to coal dust is bad for people's health and the process of coal export brings no positives to anyone other than those who profit from its trafficking.

Comment Number: MBTL-HIA-00087-005-1

Commenter: Carol Carver

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

As a former nursing director in the Cowlitz Health Dept I know that the area cannot withstand an increase in particulates without health consequences, especially to the youngest citizens.

Comment Number: MBTL-HIA-00087-007-1

Commenter: Georgeann Gaston

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

We moved here 45 years ago. We fell in love with Longview because of the quality of life. Most retired folks we know like us choose to stay. (except for a winter stay perhaps in Arizona or California.) We know there are people that cannot move elsewhere if the coal terminal is built. They will be subjected to all of the above. I grew up with coal being burned in our kitchen and dining room. It is insidious. Our dishes would get greasy in the pantry even though we were not aware of any smoke. I had bronchitis often. You put coal in a jar and just shake it a bit and the jar is coated with dust. People living directly East from the terminal already in summer say they cannot use a barbecue because of the wind coming from the river. What would that wind carry if the coal terminal was

Comment Number: MBTL-HIA-00087-015-1

Commenter: James Cronin

Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

coal dust should be prevented and coal itself not encouraged as energy source

Comment Number: MBTL-HIA-00094-2

Commenter: Marilee Dea

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

As a member of the Oregon Nurses Association (ONA), representing registered nurses in Oregon - we unanimously passed a resolution against coal terminals and coal exports in Oregon. Why would we do that? Coal dust contains heavy metals, mercury, lead and arsenic that escapes in transit and transfer. Lead is linked to poisoning nervous systems in young children and workers as well; mercury can cause poisoning in fish and birth defects in infants whose mothers eat this fish and the dust and particulate matter from the coal and especially from diesel in both the engines from the trains and tanker ships can cause cancer, heart attacks and asthma. Diesel's small particulate matter is inhaled into lungs where it can cause swelling and inflammation leading to an exacerbation of asthma and possible cancer and it then travels into the blood stream where it invades the heart and can participate a heart attack.

Comment Number: MBTL-HIA-00096-25

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

DISCUSSION

1. HEALTH EFFECTS OF DPM AND COAL DUST

Part A (Air Quality), Section II (Health Evaluation) considers these questions:

Question 1. What effects will coal dust, diesel exhaust from trains, ship pollutants, and emissions from vehicles, due to increased congestion, have on the health of Longview residents and sensitive populations (such as asthmatics, elderly, pregnant, smokers, those with respiratory conditions, and youth)?

Question 2. What are the short- and long-term effects of diesel exhaust and coal dust exposure?

Question 3. What neighborhoods and communities will be at the greatest risk of exposure to air pollution based on proximity, prevailing winds, and other environmental factors?

Some short-and-long term effects of diesel exhaust and coal dust exposure (PM 2.5 and PM 10) are well-delineated in the HIA. The current health status of the neighborhoods and communities at greatest risk of exposure are also clearly noted and found to be generally worse than that of Washington State as a whole.

Health data shows higher death rates from heart disease, lower respiratory diseases, most notably emphysema in Cowlitz County, particularly in the neighborhoods near the proposed MBT (Highlands and St. Helen's) than in

other areas of Washington State. This translates into a greater negative effect of air pollution on the health of the population of Cowlitz County because of the higher burden of existing illness.

The DHIA omits the harmful effects of PM 2.5 on older adults in particular. Recent research has shown that the elderly are disproportionately harmed from this type of air pollution. Even a slight increase in daily PM 2.5 exposure has been shown to directly correlate with increased mortality for adults 65 and older. [Appendix III] As the HIA notes that Cowlitz County's population of adults over 65 is larger than that of Washington overall, this risk is particularly significant.

What conclusions are drawn are found buried in the Appendix. In the Appendix, the DHIA notes that in “2008 the Washington Department of Ecology ranked DPM as the highest priority toxic air pollutant based on cancer potency and emission levels.” Although the HIA notes significant negative health impacts of both diesel exhaust and coal dust exposure to the residents of Cowlitz County, particularly those closest to the terminal, it does not acknowledge that these effects cannot be mitigated. Because the greatest negative health impacts would occur in vulnerable communities and to those burdened by illness, pregnant women, infants and children, and those over 65 years, this project does not meet the standards of “Equity” from the International Association of Impact Assessment. [Appendix I]

Furthermore, the DHIA does not discuss the adverse effects of exposure to black carbon (BC), a component of diesel particulate matter, smaller than PM 2.5, and more dangerous. There is evidence that previous estimates of the effects of PM 2.5 on health may have been underestimated as new methods of measurement have been developed to evaluate the black carbon content. Of most concern, evidence of neurodevelopmental and neurodegenerative effects of exposure to black carbon and PM2.5 and the toxicants they carry into the blood stream have been left out of the analysis. Thus, important health impacts on children, adults, and the elderly have been left out of the draft HIA.

Asthma rates in Cowlitz County are very high. The DHIA does not analyze the potential for increased asthma rates and exacerbation resulting from exposure to fine particulate matter and ground level ozone. High asthma hospitalization rates are noted in the Table 8 but there is no discussion. Asthma should be added and evaluated as a health impact along with significant increases in hospitalizations for respiratory infections, COPD and bronchiectasis.

The impact to other communities along the rail lines or shipping routes is also minimized or excluded and what information is provided is only found in the Appendix.

The DHIA also does not acknowledge the multiple cumulative and synergistic effects of DPM and coal dust.

For further detail see pages 6-15, Oregon and Washington Physicians for Social Responsibility Comments on Draft Environmental Impact Statement for Millennium Bulk Terminals Longview [Appendix II]

See also, from the Journal of the American Medical Association, a summary of the most current evidence for premature death associated with low level air pollution. (Appendix III)

Comment Number: MBTL-HIA-00096-39

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 4 2.4 5.1

Comment Excerpt Text:

Conclusions

Oregon and Washington PSR conclusions are based on the DHIA, the FEIS, the Decision of the Shorelines Hearing Officer, the Assessment of Health and Safety Implications of Coal Transport through Oakland, hundreds of peer-reviewed journal articles and include:

- Coal pollutants affect all major body organ systems and contribute to 4 of the 5 leading causes of death in America, including heart disease, cancer, stroke, and chronic respiratory disease.
- Transportation of coal by rail through Longview and the transfer of coal through the proposed MBT export terminal will increase exposures to air pollutants with known adverse health effects including deaths.
- There are no proven methods to eliminate or reduce the emission of these pollutants to a safe level.
- There are inherent hazards in transporting and handling coal, including the risk of catastrophic explosion.
- The combustion of coal exported from Longview will contribute to global climate change, resulting in additional adverse health risks to Cowlitz County residents and others.
- Impacts of coal transport and handling, including noise impacts, will be greatest along the railroad and near the terminal in neighborhoods already burdened by significant health inequities.

Comment Number: MBTL-HIA-00096-8

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

SUMMARY FINDINGS

1. HEALTH EFFECTS OF DIESEL PARTICULATE MATTER (DPM) AND COAL DUST:

Coal dust and diesel particulate matter (DPM) exposures lead to death, hospitalization from heart and lung disease, asthma attacks, pneumonia, decline in lung function, asthma in children, plus growing evidence of stroke, Type 2 diabetes, neurological and cognitive impairment, cancer and pre-term and low-birth weight babies. In the Appendix, the DHIA acknowledges that in “2008 the Washington Department of Ecology ranked DPM as the highest priority toxic air pollutant based on cancer potency and emission levels.”

The DHIA provides data that indicates this project will lead to a higher burden of illness and increased deaths from exposure to DPM and coal dust for the residents of Cowlitz County.

However, the DHIA minimizes the negative health impacts and the fact that those with underlying illnesses are most negatively impacted by poor air quality. It also fails to conclude that the impacts of these air pollutants cannot be mitigated and that these air pollutants most affect vulnerable communities already burdened by significant health inequities.

Comment Number: MBTL-HIA-00097-13

Commenter: C. Persons

Commenter Type: Organization

Classification: Technical

Other Sections: 2.2

Comment Excerpt Text:

- By the FEIS and draft HIA’s own analyses, predicted levels of PM10 and PM2.5 emissions from diesel and coal dust are dangerously close to the maximums allowed by federal and state standards and are at the maximum of 10 new cancers per million permitted by Washington State for diesel emissions. As noted above, these emission levels are far above those recommended by WHO. Cowlitz County residents most affected will be low-income residents in a Longview area already well-documented for poor cardiovascular health (part of the Highlands Neighborhood) and Woodland Primary School, attended by young children, another population that the draft HIA states is especially at risk from long-term micro-particle exposure. Because of these adverse health effects from emissions alone, the final HIA could protect residents by recommending that the Millennium project not be built at all.

- Alternatively, the HIA should include recommendations for mitigation of these emission levels not included in the FEIS, such as replacement of diesel train engines with less-emitting models at the beginning of operations instead of over a long period of years; curtailment of train arrivals, departures and unloading during particularly adverse winter air inversions; use of covered coal train cars; enclosure or partial enclosure of train unloading and ship loading; and enclosure or partial enclosure of coal storage piles.

Crafting these recommendations for emissions mitigation is where input from the Steering Committee will be invaluable. Other agencies, universities and non-profits as well as Millennium and BSNF can help gather information about what are reasonable mitigations in terms of timeline and cost. Wide input over a time span of one or two years might be necessary to decide which recommendations to reduce micro-particle emissions should be included in the final HIA.

- Further recommendations about emissions will be necessary if the Millennium project is built as now described in the FEIS. The final HIA should recommend that Millennium Bulk Terminals wash down soot on residences, as Westshore Terminal does in Delta, B.C. Alternatively, most residents within 50 to 150 feet of the coal train routes will need a public education campaign to learn how to live with “nuisance” levels of coal dust (soot) as an annoyance that is not adversely affecting their health very much.

- More important, other public health education will be necessary if the Millennium project is built as currently proposed in the FEIS; the residents of Longview who live within 50 to 100 feet of the coal train routes and operations plant and staff at Woodland Primary School—and other residents at risk who may be identified along the train routes outside of Cowlitz County—will need to learn how to modify their buildings and activities to minimize exposure to dangerous levels of micro-particles.

The exact form of these recommendations in the final HIA will require input from various public agencies and non-profits about leadership of this continuing public education campaign—and input from the residents most affected, whose opinions about the cost, reasonableness, timeline and effectiveness of various actions should be considered invaluable.

Comment Number: MBTL-HIA-00097-5

Commenter: C. Persons

Commenter Type: Organization

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

Additional information and sources:

- The draft HIA is to be commended for its clear explanation that micro-particle emissions in coal dust and diesel emissions are correlated with a range of cardiovascular diseases, from asthma to heart attacks, as well as some correlation with other diseases, and that low-income people who already suffer from stress-related disease and other vulnerable parts of the population, such as infants, children, the elderly and those with chronic health conditions, will be more adversely affected by increases in micro-particles than healthy working-age adults with adequate incomes.

The draft HIA also explains that the direct evidence for these adverse health effects from coal dust is lacking in terms of controlled subject or large population studies for non-coal industry workers. To improve the lack of scientific studies, the final HIA should consider adding the evidence of a recent study—Jha and Muller 2017, which looks at the health and economic effects of coal storage and transportation on regions of the Eastern U.S.A. Also please plan to incorporate the results of the promised BSNF study, due in 2018, of the effectiveness of covers for coal trains (Le 2016).

- The most important information that is lacking in the draft HIA is the World Health Organization's standards for micro-particle emissions (WHO 2005):

PM2.5:

10 µg/m³ annual mean

25 µg/m³ 24-hour mean

PM10:

20 µg/m³ annual mean

50 µg/m³ 24-hour mean (WHO 2005, p. 9)

Inclusion of these standards would follow the precedent in the draft HIA of referring to the WHO standards for noise levels. The WHO emission standards are basically half the federal government's NAAQS approved levels. The WHO standards are based on years of studies of disease effects from PM2.5 and PM10 particles, and factor in the practicality of both measuring emission levels and enforcing standards to protect elderly, young, and health-compromised populations who are so much more affected by increases in micro-particles. The draft HIA states that the modeled emission levels predicted for the Millennium project, while just short of the NAAQS maximums, is still unhealthy. However, reference to the WHO standards would clarify how strong the consensus is that U.S. federal standards do not adequately protect vulnerable populations who experience long-term exposure to micro-particle emissions.

Comment Number: MBTL-HIA-00097-8

Commenter: C. Persons

Commenter Type: Organization

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

Suggested monitoring:

- Monitoring for micro-particle emissions as currently proposed in the FEIS is inadequate for a 23-year project which will not reach full capacity until 2028. According to the FEIS, as part of mitigation Millennium would install one fence-line particulate matter monitor and report pollution levels to the Department of Ecology for five years. However, monitoring should take place for the entire period of the project and beyond, after cleanup of the project site. A monitoring plan should also include installing more than one monitor, and it should be for all

pollutants regulated by federal and state laws, not just particulate matter. The final HIA should recommend adding emissions and coal dust monitors at further distances from the coal terminal in Longview, at Woodland Primary School, and at other points along the coal rail routes where residents are within 150 feet of the tracks, and that the monitoring period extend until the company permanently closes down operations.

Comment Number: MBTL-HIA-00099-2

Commenter: Inga Fisher Williams

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

B> Draft HIA documents MBT HEALTH RISKS and negligible Job generation. In my comments below, I cite specific reasons to illustrate how the Draft HIA shows that the Millennium Bulk Terminal development is a health risk to local and regional residents, as well as a contributor to GHG production which accelerates Climate Change impacts.

1.) Negative Health Effects from airborne coal particles are well known and have been documented. The main health impacts include lower respiratory diseases and heart diseases. The Draft NIA states that Cowlitz County and affected neighborhoods would be at even greater risk of experiencing health effects than other parts of Washington. Chronic respiratory diseases like asthma and emphysema already have a higher mortality rate in Cowlitz County than in adjoining areas (Highlands, St. Helens, and Lexington)

2.) Mitigation of Airborne Coal from onsite storage impacts Water, risking unknown, untested contamination. a. Hazardous ingredients in topper agents could not be identified as they were proprietary or not reviewed for potential health impacts. No toxicology data or testing was available and/or included in the HIA draft. It appears that many polymers are exempt from chemical testing requirements. b. Water demand for MBT is high and risks potential contamination of the aquifer. The project area includes at least nine production wells that tap into the deep aquifer. Contaminants can enter the shallow aquifer and reach the deep aquifer.

Comment Number: MBTL-HIA-00101-2

Commenter: Fred Greef

Commenter Type: General Public

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

Air quality monitors should be set up in the critical corridor where most severe health impacts and excess cancer deaths are predicted. At least one full year of ambient air quality monitoring background data should be collected in these neighborhoods before any project approvals. Public officials should then look more closely at all the modeling assumptions to determine whether this proposal will actually violate federal standards for PM 2.5, NO₂, and DPM. If health standards cannot be met the project must not be denied. I think there are some real questions here and real public health issues that call for air quality monitoring in these neighborhoods with true PM 2.5 PBR coal dust measurements. An Australian study based on PM 10 size coal particles is not good enough for the citizens of Longview.

Powder River Basin (PBR) coal breaks down into a much higher percentage of the finer sized PM 2.5 particles than coal from many other parts of the world. The HIA assumes particle size will be largely in the PM 10 size range. Coal dust impacts in Australia and other locations such as England were used to estimate Longview impacts. Modeling assumed that most of the coal dust would be in the PM 10 size class as in these other areas. The true PM 2.5 levels in the critical corridor area may well exceed the federal ambient air quality standard. 89% of the federal standard is way too close for comfort especially with several potentially faulty assumptions. The citizens of the most impacted neighborhoods in Longview already suffer much poorer health than most Washington citizens, from the same types of air pollution that this proposal will cause. Powder River Basin (PRB)

coal-the type that would be exported---is notoriously difficult to handle. One technical analysis finds that "PRB coal is extremely friable and will break down into smaller particles virtually independent of how the coal is transported or handled." According to the study's authors, "PRB coal represents the extremes of handling problems."

So much coal dust escapes from the open-top rail cars used for transporting coal that it creates safety problems for rail traffic. Coal dust deposits sometimes cause spontaneous fires, and in 2005, for example, coal dust that had accumulated in ballast, the layer of crushed rock that supports rail tracks, caused derailments. Published and peer-reviewed scientific research by Dan Jaffe, a professor of atmospheric science at the University of Washington, casts doubt on the real-world effectiveness of controlling coal dust from rail transport even with use of surfactants. In 2013 and 2014, Jaffe installed air monitoring equipment that enabled him to analyze the emissions from hundreds of trains. He concluded that passing coal trains do in fact spread notable quantities of dust. The bulk storage piles at the Port of Longview will also be difficult to handle and manage and much PM 2.5 will wind up in many Longview neighborhoods whenever the wind blows. It travels much farther than PM 10 assumptions used for the HIA modeling.

Comment Number: MBTL-HIA-00102-4

Commenter: Patricia Bode

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

- Significant coal dust and diesel particulate matter exposures can lead to death, hospitalization from heart and lung disease, asthma attacks, pneumonia, decline in lung function, asthma in children, plus growing evidence of stroke, Type 2 diabetes, neurological and cognitive impairment, and pre-term and low-birth weight babies.

Comment Number: MBTL-HIA-00103-3

Commenter: Kevin Baier

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

*Significant coal dust and diesel particulate matter (DPM) exposures that can lead to death, hospitalization from heart and lung disease, asthma attacks, pneumonia, decline in lung function, asthma in children, plus growing evidence of stroke, Type 2 diabetes, neurological and cognitive impairment, and pre-term and low-birth weight babies (p.9).

Comment Number: MBTL-HIA-00108-6

Commenter: Donald Lightfoot

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The draft gives data and documents how the Millennium Coal Terminal project will cause catastrophic health damage: * *Significant coal dust and diesel particulate matter (DPM) exposures lead to death, hospitalization from heart and lung disease, asthma attacks, pneumonia, decline in lung function, asthma in children,

Comment Number: MBTL-HIA-00123-3

Commenter: Jane Middlesworth

Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

The draft shows the project will increase cancer rates in communities near the rail line. The draft shows significant coal dust and diesel particulate matter exposures leading to death, hospitalization from heart and lung disease, asthma attacks, pneumonia, decline in lung function, asthma, plus growing evidence of stroke, Type 2 diabetes, neurological and cognitive impairment, and pre-term and low-birth weight babies.

Comment Number: MBTL-HIA-00124-3
Commenter: Jane Middlesworth
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

The draft shows the project will increase cancer rates in communities near the rail line. The draft shows significant coal dust and diesel particulate matter exposures leading to death, hospitalization from heart and lung disease, asthma attacks, pneumonia, decline in lung function, asthma, plus growing evidence of stroke, Type 2 diabetes, neurological and cognitive impairment, and pre-term and low-birth weight babies.

Comment Number: MBTL-HIA-00141-1
Commenter: Wesley Banks
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

As a child I grew up in coal mining towns and so I am very aware of the dust and other contaminants that are associated with coal. We used to hitch rides on coal cars and I can assure you that there is lots of dust and small chips that fly off of those cars. I do not want those cars traveling through Vancouver on their way to Longview. If I lived in the Longview area I would be even more concerned about all of that pollution.

Comment Number: MBTL-HIA-00160-9
Commenter: Susan Haywood
Commenter Type: General Public
Classification: Non-technical
Other Sections: 2.2

Comment Excerpt Text:

Transporting coal emits dust, but burning the coal in China sends it back to this hemisphere as smoke/carbon. We use fossil fuels to transport the polluting material which has already caused pollution, however it was mined.

Comment Number: MBTL-HIA-00188-1
Commenter: Catherine Ellison
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Significant coal dust and diesel particulate matter exposures can lead to medical problems.

Comment Number: MBTL-HIA-00199-5
Commenter: Bruce Hlodnicki
Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Significant coal dust and diesel particulate matter exposures increase death rates, hospitalizations with heart and lung disease, asthma development and asthma attacks in children, pneumonia, asthma in, even stroke, Type 2 diabetes, neurological and cognitive impairment, and pre-term and low-birth weight deliveries.

Comment Number: MBTL-HIA-00200-1

Commenter: Gregory Monahan

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I am deeply concerned about the health impacts of coal dust on the thousands of people living and working along the rail lines.

Comment Number: MBTL-HIA-00206-2

Commenter: Mary Kay Mattson

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Coal burning plants emit uranium dust. Open piles are not safe. Fix the dust before it enters human lungs. Make your consideration of human health of primary importance, if you do as I suggest, headlines matter..

Comment Number: MBTL-HIA-00209-2

Commenter: Danny Dyche

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Significant coal dust and diesel particulate matter exposures can lead to death, hospitalization from heart and lung disease, asthma attacks, pneumonia, decline in lung function, asthma in children

Comment Number: MBTL-HIA-00218-3

Commenter: Elizabeth Barger

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Now is the time to stop the increased hazards to human health that would occur if we continue on the expansion of coal use. The terminal would lead to significant coal dust and diesel particulate matter exposures leading to death, hospitalization from heart and lung disease, asthma attacks, pneumonia. This would lead to a decline in lung function, asthma in children, and growing happenings of stroke, Type 2 diabetes, neurological and cognitive impairment, and pre-term and low-birth weight babies. Cancer rates would increase.

Section 2.2 - Exhaust and emissions from trains ships and vehicles

Comment Number: MBTL-HIA-00038-1

Commenter: Don Steinke

Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

Please make this part of the record. Please remind the decision makers why the EPA considers diesel emissions so serious that they fined Volkswagen \$20 billion for cheating on their emissions. Please compare the likely emissions of all the non-compliant Volkswagens in the study area with the anticipated emissions of 32 diesel locomotives entering and leaving the study area on a daily basis.

Comment Number: MBTL-HIA-00038-5
Commenter: Don Steinke
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

When George Bush ran for the presidency in 2000, he said the air would be cleaner when he left office, than when he began. His office also said that for each \$1 spent reducing diesel emissions, \$4 in health care costs would be saved. The air may be cleaner in places that have the new diesel locomotives, but Washington State doesn't usually get those. Demand that Millennium use only Tier 4 locomotives in SW Washington.

Comment Number: MBTL-HIA-00039-103-1
Commenter: Krista Mead
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Not just the diesel fumes from trains, but the fumes from ships also pollute the Columbia River area.

Comment Number: MBTL-HIA-00039-113-2
Commenter: Gary Lindstrom
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Diesel emissions from locomotives and ships will severely impact the air as well as coal dust. This mixture into the air will be a killer for those along the rail and near the terminals.

Comment Number: MBTL-HIA-00039-152-1
Commenter: JoAnne Baker
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Nine unit trains a day, one track equals 18 trips, going very slowly, back and forth, through the Highlands (already very polluted), dissecting Longview (interrupting interstate travel) and the community with very, very long waits while spewing diesel fumes

Comment Number: MBTL-HIA-00097-13
Commenter: C. Persons
Commenter Type: Organization
Classification: Technical

Other Sections: 2.1

Comment Excerpt Text:

- By the FEIS and draft HIA's own analyses, predicted levels of PM10 and PM2.5 emissions from diesel and coal dust are dangerously close to the maximums allowed by federal and state standards and are at the maximum of 10 new cancers per million permitted by Washington State for diesel emissions. As noted above, these emission levels are far above those recommended by WHO. Cowlitz County residents most affected will be low-income residents in a Longview area already well-documented for poor cardiovascular health (part of the Highlands Neighborhood) and Woodland Primary School, attended by young children, another population that the draft HIA states is especially at risk from long-term micro-particle exposure. Because of these adverse health effects from emissions alone, the final HIA could protect residents by recommending that the Millennium project not be built at all.

- Alternatively, the HIA should include recommendations for mitigation of these emission levels not included in the FEIS, such as replacement of diesel train engines with less-emitting models at the beginning of operations instead of over a long period of years; curtailment of train arrivals, departures and unloading during particularly adverse winter air inversions; use of covered coal train cars; enclosure or partial enclosure of train unloading and ship loading; and enclosure or partial enclosure of coal storage piles.

Crafting these recommendations for emissions mitigation is where input from the Steering Committee will be invaluable. Other agencies, universities and non-profits as well as Millennium and BSNF can help gather information about what are reasonable mitigations in terms of timeline and cost. Wide input over a time span of one or two years might be necessary to decide which recommendations to reduce micro-particle emissions should be included in the final HIA.

- Further recommendations about emissions will be necessary if the Millennium project is built as now described in the FEIS. The final HIA should recommend that Millennium Bulk Terminals wash down soot on residences, as Westshore Terminal does in Delta, B.C. Alternatively, most residents within 50 to 150 feet of the coal train routes will need a public education campaign to learn how to live with "nuisance" levels of coal dust (soot) as an annoyance that is not adversely affecting their health very much.

- More important, other public health education will be necessary if the Millennium project is built as currently proposed in the FEIS; the residents of Longview who live within 50 to 100 feet of the coal train routes and operations plant and staff at Woodland Primary School—and other residents at risk who may be identified along the train routes outside of Cowlitz County—will need to learn how to modify their buildings and activities to minimize exposure to dangerous levels of micro-particles.

The exact form of these recommendations in the final HIA will require input from various public agencies and non-profits about leadership of this continuing public education campaign—and input from the residents most affected, whose opinions about the cost, reasonableness, timeline and effectiveness of various actions should be considered invaluable.

Comment Number: MBTL-HIA-00101-1

Commenter: Fred Greef

Commenter Type: General Public

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

I believe there are a couple of key flaws that should be addressed before the report is finalized since they may lead to significant underestimation of the public health consequences. PM 2.5 and diesel emissions (DPM) from huge

barges may be underestimated.

The 2013 and 2016 background air quality monitoring for Longview may not have explicitly focused on the most impacted corridor, and likely does not represent true PM 2.5 background levels, or true diesel particulate (DPM) levels for that zone. The PM 2.5 emissions in those neighborhoods following build-out were modeled at 89% federal Ambient Air Quality Standards. The background level used in the modeling may not represent the critical impact zone levels, which are higher than other parts of Longview. I believe the true background level in the critical impact zone has never had adequate annual measurements. These are questions that should be addressed before the final HIA report.

The DPM estimates may also be underrepresented in the HIA modeling since the huge barges diesel emissions (docked outside of the study area) were not even counted. The fine particles in these emissions travel great distances with any wind up or down river, and no "wind rose" air quality modeling was conducted to justify the assumption of no additional PM 2.5 or DPM impact in the critical corridor. Washington Department of Ecology air quality modellers should look closely at all of these assumptions before we can say national air quality standards will not actually be violated.

Comment Number: MBTL-HIA-00160-9

Commenter: Susan Haywood

Commenter Type: General Public

Classification: Non-technical

Other Sections: 2.1

Comment Excerpt Text:

Transporting coal emits dust, but burning the coal in China sends it back to this hemisphere as smoke/carbon. We use fossil fuels to transport the polluting material which has already caused pollution, however it was mined.

Comment Number: MBTL-HIA-00178-5

Commenter: Cynthia Bower

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

These effects are dire and long-term: Exhaust emissions from waiting vehicles will increase.

Comment Number: MBTL-HIA-00238-1

Commenter: Virjeana Brown

Commenter Type: General Public

Classification: Non-technical

Other Sections: 5.1

Comment Excerpt Text:

For the past two days, I have had a train running, parked in front of my house. The smell of diesel makes me sick to my stomach and the noise keeps me from getting a good nights sleep. Please take this HIA very seriously for my health and the health of my child as well as all those children and families that live along the rail line.

Section 2.3 - Air pollution impacts to neighborhoods and communities

Comment Number: MBTL-HIA-00008-1

Commenter: Jim Steitz

Commenter Type: General Public

Classification: Technical

Other Sections: 5.4

Comment Excerpt Text:

***Even the smallest scope of environmental analysis, the terminal itself and the proximate impact to the local natural and human environment, shows the MBTL proposal to be grossly unacceptable. The coal shipping traffic through the Columbia River, the local air and water pollution, congestion, and destruction of the community ambiance, would transform the local area into a purgatory of industrial misery.

Comment Number: MBTL-HIA-00039-007-1

Commenter: Lee Findley

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

As a non-smoker who has COPD, I am painfully aware of the health risks that occur from breathing air with pollutants that are legally pumped into the environment. For the men, women and children of Cowlitz County, we can limit some potentially life- ending pollutants simply by saying NO to the MBTL project. There are many more arguments against these trains increasing their traffic exponentially, pollution is only one.

Comment Number: MBTL-HIA-00039-008-1

Commenter: George Lawrence

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

As a physician and former associate professor of medicine at UC Davis, I have cared for legions of people with lung disease. The tiny respirable particles called PM 2.5 are 2.5 millionths of a meter in diameter. These particles enter the tiniest airways called alveoli and then can directly cross the respiratory epithelium into the pulmonary capillaries. Once in the circulation they can wreak havoc anywhere in the body.

Comment Number: MBTL-HIA-00039-062-3

Commenter: rick rappaport

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

World is small when it comes to wind flows and breathing air. Longview is China

Comment Number: MBTL-HIA-00132-1

Commenter: Bonnie New

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I have spent a long career working on the public health effects of exposure to air contaminants including coal and its combustion products, and am clear that these risks should be avoided.

Section 2.4 - Carbon emissions from use of coal

Comment Number: MBTL-HIA-00006-2

Commenter: Melvin Mackey

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

My comments are simple and straight forward.

We must all eventually come to the conclusion that fossil fuels are weapons of mass destruction. They are directly related to global warming and the destruction of our planet's ecosystem on which all people are dependent. Coal is one of the worst fossil fuels creating climate change.

Comment Number: MBTL-HIA-00018-1

Commenter: Peter Kerr

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I ask that the HIA Steering Committee reject the MBTL project.

Do I need to list the reasons? They were made clear in the FEIS and by the Cowlitz County Hearings Officer. But let's get real, we are talking coal, one of the largest factors in rising temperatures and climate catastrophe. We don't need coal, we don't want coal. Coal is our toxic past and we need better solutions.

Comment Number: MBTL-HIA-00018-9

Commenter: Peter Kerr

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

*Massive increase in greenhouse gas emissions

Comment Number: MBTL-HIA-00021-3

Commenter: Roger Wechsler

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

44 million metric tons of coal yields about 90 million metric tons of carbon dioxide once it is used. This is roughly on par with Washington State's current total emissions in one year. (p. 20)

Comment Number: MBTL-HIA-00024-2

Commenter: Laura van Fleet

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

and it would only serve to further feed the global problem of climate change. It is a lose/lose proposition, in both the short-term, local level, and the long-term, global setting.

Comment Number: MBTL-HIA-00029-2

Commenter: William Newmann

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

44 million metric tons of coal yields about 90 million metric tons of carbon dioxide once it is used. This is roughly on par with Washington State's current total emissions in one year. (p. 20)

Comment Number: MBTL-HIA-00039-002-1

Commenter: Barbara Carr

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Air pollution when burned

Comment Number: MBTL-HIA-00039-017-1

Commenter: Kenneth Chin-Onn

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Because coal, wherever it is burnt, contributes to global warming which affects all of us.

Comment Number: MBTL-HIA-00039-023-1

Commenter: Martin Watts

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Burning coal increases carbon in the air , causing climate change in due course . Climate change doesn't respect international borders . Nip coal export in the bud , and you save people at home and abroad .

Comment Number: MBTL-HIA-00039-024-1

Commenter: Beverly Antonio

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Burning fossil fuels is destroying our planet. The pollution and environmental destruction caused by mining harms public health, contaminats water and hasten global warming. The overwhelming majority of Americans want to move to clean, renewable energy. Do not put private profits over public good.

Comment Number: MBTL-HIA-00039-047-2

Commenter: Gregory Fite

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

All of this is in addition to the climate threat that burning coal exacerbates.

Comment Number: MBTL-HIA-00039-062-2

Commenter: rick rappaport

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

increased global warming carbon emissions all along the extraction through huge vessel delivery and subsequent burning.

Comment Number: MBTL-HIA-00039-079-2

Commenter: Julie Larson

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

& don't allow the people of Asia to be exposed to the horrors of coal burning power plants toxic emissions. My misery does not invite their

Comment Number: MBTL-HIA-00039-085-4

Commenter: Beth Hartwell

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

carbon dioxide burning of the coal (that should at this point be left in the ground) and climate change.

Comment Number: MBTL-HIA-00039-099-3

Commenter: Patricia Warden

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Coal burned anywhere pollutes the planet

Comment Number: MBTL-HIA-00039-10

Commenter: Jasmine Zimmer-Stucky

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

- 44 million metric tons of coal yields about 90 million metric tons of carbon dioxide once it is used. This is roughly on par with Washington State's current total emissions in one year. (p.20)

Comment Number: MBTL-HIA-00039-114-2
Commenter: Carol Hiltner
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

In addition, the toxic greenhouse gases released when coal is burned affect the whole northern hemisphere.

Comment Number: MBTL-HIA-00039-115-2
Commenter: Carol Hiltner
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

In addition, the toxic greenhouse gases released when coal is burned affect the whole northern hemisphere.

Comment Number: MBTL-HIA-00039-129-2
Commenter: Nancy & Mike Herron
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

It is a double threat as the coal travels to ports for shipment then again when it is burned elsewhere and the pollution travels back to affect our communities.

Comment Number: MBTL-HIA-00039-134-2
Commenter: Phil Brooke
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

as well as this export terminal's contribution to damaging and dangerous global warming.

Comment Number: MBTL-HIA-00040-2
Commenter: Pete Von Christierson
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

44 million metric tons of coal yields about 90 million metric tons of carbon dioxide once it is used. This is roughly on par with Washington State's current total emissions in one year. (p. 20)

Comment Number: MBTL-HIA-00050-4
Commenter: Barbara Gottlieb
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

At the same time, the coal when burned will emit millions of tons of carbon dioxide, damaging the climate and harming the health and well-being of people around the world.

Comment Number: MBTL-HIA-00053-1

Commenter: Miki Laws

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

As a many year resident of Utah and Wyoming, I have been shocked and dismayed over the years to follow the degradation of the air and water, especially in the formerly pristine natural areas of the states, Much of this damage has been done by coal mining and burning, and records of the changes in the far wilderness lakes has shown that pollution comes from as far as overseas, where US coal is burned in Asian power plants. This has caused measurable toxic differences in the air we breathe in the mountain states, as well as disturbing changes to our natural environment--even the fish suffer! This must stop, for the future health of our grandchildren and our country.

Comment Number: MBTL-HIA-00056-1

Commenter: Harry Kershner

Commenter Type: General Public

Classification: Non-technical

Other Sections: 4

Comment Excerpt Text:

According to the draft Health Impact Assessment, this proposed coal terminal would increase cancer rates, clog rail lines, and cause huge climate impacts. Why would anyone favor this?

Comment Number: MBTL-HIA-00063-3

Commenter: Michael Gochfeld

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Wherever the coal is destined to be burned, it will generate carbon dioxide, contributing to the climate crisis, which in turn poses additional health threats.

Comment Number: MBTL-HIA-00077-2

Commenter: Susan Burnett

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Additionally, Climate Change is also real. The use of coal is pure and simple a criminal act as far as I am concerned. It's driving drunk with impunity

Comment Number: MBTL-HIA-00083-2

Commenter: John Nettleton

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

and second, the pollution drift from the burning of this coal overseas. Enough with the fossil fuel madness, line your pockets some other way, maybe with something beneficial.

Comment Number: MBTL-HIA-00094-3

Commenter: Marilee Dea

Commenter Type: General Public

Classification: Technical

Comment Category:

Comment Excerpt Text:

The health impacts on our environment are just as grave - in a worldview, coal is the worst producer of Green House Gases (GHG). The GHGs are smothering our earth's atmosphere and are the main reason the Arctic is melting, our forests are on fire and our cities are torn apart by floods and hurricanes and millions of people have become refugees of drought.

Comment Number: MBTL-HIA-00096-39

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 2.1 4 5.1

Comment Excerpt Text:

Conclusions

Oregon and Washington PSR conclusions are based on the DHIA, the FEIS, the Decision of the Shorelines Hearing Officer, the Assessment of Health and Safety Implications of Coal Transport through Oakland, hundreds of peer-reviewed journal articles and include:

- Coal pollutants affect all major body organ systems and contribute to 4 of the 5 leading causes of death in America, including heart disease, cancer, stroke, and chronic respiratory disease.
- Transportation of coal by rail through Longview and the transfer of coal through the proposed MBT export terminal will increase exposures to air pollutants with known adverse health effects including deaths.
- There are no proven methods to eliminate or reduce the emission of these pollutants to a safe level.
- There are inherent hazards in transporting and handling coal, including the risk of catastrophic explosion.
- The combustion of coal exported from Longview will contribute to global climate change, resulting in additional adverse health risks to Cowlitz County residents and others.
- Impacts of coal transport and handling, including noise impacts, will be greatest along the railroad and near the terminal in neighborhoods already burdened by significant health inequities.

Comment Number: MBTL-HIA-00099-5

Commenter: Inga Fisher Williams

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

4.) Unacceptable levels of GHG emissions generated by MBT facility's operation. The FEIS estimates that when the project is operating at full capacity, 44 million metric tons (MMT) of coal -the equivalent of 90 MMT CO₂e (carbon dioxide equivalent)--would move through the facility each year, to be sold on the international coal market. It is certain that 'if increasing global GHG emissions from human activities continues on a business as

usual path, residents in Washington and Cowlitz County will experience far greater harms than if the level of GHG emissions at the global level are dramatically reduced sufficient to arrest the increase in atmospheric GHG concentrations and limit global warming to under 2 degrees Celsius.'

Comment Number: MBTL-HIA-00102-2

Commenter: Patricia Bode

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

- 44 million metric tons of coal, when burned, emit about 90 million metric tons of carbon dioxide. This is roughly on par with Washington State's current total carbon emissions in one year.

Comment Number: MBTL-HIA-00103-9

Commenter: Kevin Baier

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

*44 million metric tons of coal yields about 90 million metric tons of carbon dioxide once it is burned. This is roughly on par with Washington State's current total annual carbon dioxide emissions (p.20).

Comment Number: MBTL-HIA-00104-6

Commenter: rejean idzerda

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

44 million metric tons of coal yields about 90 million metric tons of carbon dioxide once it is used. This is roughly on par with Washington State's current total emissions in one year. (p.20)

Comment Number: MBTL-HIA-00123-9

Commenter: Jane Middlesworth

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The draft shows 44 million metric tons of coal yields about 90 million metric tons of carbon dioxide when it is used -- roughly on par with Washington State's current total emissions in one year.

Comment Number: MBTL-HIA-00124-10

Commenter: Jane Middlesworth

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The draft shows 44 million metric tons of coal yields about 90 million metric tons of carbon dioxide when it is used -- roughly on par with Washington State's current total emissions in one year.

Comment Number: MBTL-HIA-00134-2

Commenter: T J Thompson

Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

But moreover, burning of fossil fuels is only accelerating global climate change, which will be catastrophic (beyond that we've already seen with hurricanes, tornados, droughts, floods and fires), and irreversible.

Comment Number: MBTL-HIA-00148-2
Commenter: Barbara Cain
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

but also those who will suffer with the burning of this product!!!

Comment Number: MBTL-HIA-00153-5
Commenter: Mary Headrick
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

44 million metric tons of coal would be exported annually and, when burned, emit about 90 million metric tons of carbon dioxide. - Where eventually burned, the emissions of particulates and toxins would cause premature asthma, cancer and cardiovascular deaths

Comment Number: MBTL-HIA-00174-1
Commenter: Richard Weiskopf
Commenter Type: General Public
Classification: Non-technical
Other Sections: 2 5.4 4 1

Comment Excerpt Text:

This project would be detrimental to air quality, water quality, human health, and global climate. It should be totally rejected.

Comment Number: MBTL-HIA-00205-5
Commenter: Rosemarie Carbino
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

44 million metric tons of coal, when burned, emit about 90 million metric tons of carbon dioxide. This is roughly Washington State's current total carbon emissions in one year.

Comment Number: MBTL-HIA-00209-1
Commenter: Danny Dyche
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

I - 44 million metric tons of coal, when burned, emit about 90 million megagrams of carbon dioxide. -

Comment Number: MBTL-HIA-00211-1

Commenter: Kristin Fernald

Commenter Type: General Public

Classification: Non-technical

Other Sections: 1 2 5.4

Comment Excerpt Text:

I urge you to take serious consideration to the concerns expressed below. I would like to add that the risks both environmentally and to human health are far too great to mitigate the benefits of this central coal terminal. Air quality, water quality, climate change all will be affected.

Comment Number: MBTL-HIA-00228-1

Commenter: Mary Barbezat

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Because I am convinced that we must not, for our very survival on this planet, continue any process that releases more carbon into our atmosphere, I

Comment Number: MBTL-HIA-00239-1

Commenter: Bryan Bremner

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I support the above comments although my personal concern is with areas outside of Cowlitz County. I have lived in Eastern Washington and Northern Idaho for 70 years. These trains have severe negative effects all along their route, I have seen and been stopped by them in Idaho, Eastern Washington (especially in and around Spokane and Spokane Valley), and along the Columbia River. In addition the side effects of their passage and processing will effect our environment much beyond their route and processing locations. When the coal is used it generates many noxious gasses as well as carbon dioxide. Many of these are damaging to human health and carbon dioxide is the most well known greenhouse gas. Our state is already suffering from human caused warming and this will make our forest and agricultural losses even worse.

Comment Number: MBTL-HIA-00240-1

Commenter: Bryan Bremner

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I support the above comments although my personal concern is with areas outside of Cowlitz County. I have lived in Eastern Washington and Northern Idaho for 70 years. These trains have severe negative effects all along their route, I have seen and been stopped by them in Idaho, Eastern Washington (especially in and around Spokane and Spokane Valley), and along the Columbia River. In addition the side effects of their passage and processing will effect our environment much beyond their route and processing locations. When the coal is used it generates many noxious gasses as well as carbon dioxide. Many of these are damaging to human health and carbon dioxide is the most well known greenhouse gas. Our state is already suffering from human caused warming and this will make our forest and agricultural losses even worse.

Comment Number: MBTL-HIA-00241-1

Commenter: Bryan Bremner

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I support the above comments although my personal concern is with areas outside of Cowlitz County. I have lived in Eastern Washington and Northern Idaho for 70 years. These trains have severe negative effects all along their route, I have seen and been stopped by them in Idaho, Eastern Washington (especially in and around Spokane and Spokane Valley), and along the Columbia River. In addition the side effects of their passage and processing will effect our environment much beyond their route and processing locations. When the coal is used it generates many noxious gasses as well as carbon dioxide. Many of these are damaging to human health and carbon dioxide is the most well known greenhouse gas. Our state is already suffering from human caused warming and this will make our forest and agricultural losses even worse.

Comment Number: MBTL-HIA-00249-6

Commenter: Jennifer Nitz

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

This is roughly on par with Washington State's total annual carbon dioxide emissions (p.20).

Section 3 - Economics

Comment Number: MBTL-HIA-00018-3

Commenter: Peter Kerr

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Please reject this project for our own welfare and a better economy based on practical and vibrant green industries (that are proven to provide more jobs and better living). Coal kills our children, our future.

Comment Number: MBTL-HIA-00023-1

Commenter: Nick Walch

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

I started at Longview Fibre Co. in the 1990's, and have vivid memories of how smelly your car would be after sitting in the mill parking lot. It was so bad employees would have a sacrificial car for work. After many years, environmental projects, and millions of dollars the mill was able to be a good environmental actor and provide excellent wage jobs. People drive their new cars into the mill without worry of the smell. In the mad rush to sell dirty energy to other parts of the world it seems we would willingly sacrifice this community just like the mill car. This would be a major step backwards in an already depressed community. The rest of this is the form letter, which has many excellent points. Industry should serve at the pleasure of the public, the public should not be sacrificed for corporate profits.

Comment Number: MBTL-HIA-00038-4
Commenter: Don Steinke
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

Will Millennium pay for the care and education of children with birth defects?

Comment Number: MBTL-HIA-00039-022-2
Commenter: Georgia Shankel
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

and the costs of the health system taking care of the breathers.

Comment Number: MBTL-HIA-00039-048-2
Commenter: Virgene Link
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

and increasing medical costs. Thank you.

Comment Number: MBTL-HIA-00039-109-1
Commenter: Steven Wright
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Rail traffic, health hazards, global warming that will harm our coastal fisheries and shell fish industries and a lot more negative impacts.

Comment Number: MBTL-HIA-00096-11
Commenter: Regna Merritt
Commenter Type: Organization
Classification: Technical
Other Sections: 8

Comment Excerpt Text:

4. ECONOMIC PROSPERITY: The DHIA includes an analysis of the positive impacts of projected economic growth in the County of the proposal. It includes, however, no analysis of the economic impact of negative health outcomes. It fails to include recent information pertaining to the viability of the coal industry. The implication that the coal terminal would have a net positive effect on community prosperity is not supported.

Comment Number: MBTL-HIA-00096-28
Commenter: Regna Merritt
Commenter Type: Organization
Classification: Technical

Other Sections: 8

Comment Excerpt Text:

4. ECONOMIC PROSPERITY

Part B (Economic Health, Prosperity and Resiliency), Section II (Health Evaluation) takes up these questions:

Question 4. How will the project affect the number and types of jobs in Longview in the long-term and how does that affect the health of those employed and the community as a whole? How does that compare to alternative site uses for the MBTL site?

Question 5. How will the other aspects of the local economy be affected? Will the impact on tourism, the service economy, and the river economy increase prosperity?

Question 6. How will this affect local taxes and will that affect health?

Question 7. What economic, social, or environmental accountability does Millennium have to the community if they close or leave the community? Does that accountability remain if there is a bankruptcy?

The analysis focuses on the positive health effects that would result from projected economic growth from the coal terminal. This is an important part of a comprehensive health impact assessment. The analysis here, and in DHIA Appendix I, is detailed, includes wage multipliers, effects on tax base, discussion of alternative uses of the site for the proposed coal terminal and the consequences to the community should the project terminate prematurely.

Missing from the discussion is any analysis of the economic costs of negative health impacts such as loss of work and school days, costs of medical care, and years of potential life lost. Net effects of the project on economic prosperity cannot be predicted without further analysis, as the report itself admits: “A sophisticated economic analysis would be necessary to draw more solid conclusions on the positive health impacts of a project from a perspective of job creation and site use.” [1, page 16]

Furthermore, estimates for job creation, direct and indirect (on which estimates of economic growth are predicated) derive solely from the estimates provided by MBT itself with no independent assessment of the accuracy of these estimates.

The DHIA clearly states that closure of the plant would have serious economic consequences for both MBT’s employees as well as the community at large. It notes that there are some ways to mitigate this such as The Worker Adjustment and Retraining Notification Act (WARN). There are notable exceptions to requiring employers to comply with this including closure due to unforeseen circumstances. The DHIA notes that another way to mitigate a closure would be to require that MBT comply with the International Finance Corporation Performance Standard of having a “Retrenchment Plan” in place, which includes provisions for managing lay-offs in the event of downsizing or closure. MBT currently has no plan to develop a “Retrenchment Plan” and there is no current requirement for MBT to do this.

If MBT closes its operations, the site would require major environmental cleanup efforts to make it usable for other industrial or non-industrial uses. This would be a significant negative impact on the community not only in loss of jobs but in the cost of making the site usable by other companies. The DHIA notes that the Model Toxics Control Act does not include coal as a toxic substance. It states that that they cannot offer an assessment of whether the MBT site cleanup would trigger the Model Toxics Control Act, but imply that it would be very unlikely.

It is remarkable that the DHIA does not address the issue of the likelihood of closure, given the efforts of most

countries, especially China, to significantly reduce the use of coal to improve air quality and limit global warming. The DHIA implies but does not clearly state that Millennium could not and would not be held accountable for the economic, emotional, and physical impacts to their workers or for the broader impact to the community. Further, it implies that there is no accountability for its environmental impact.

Furthermore, recent news from Newcastle, Australia demonstrates the massive decline of coal export markets and financial risks associated with over-reliance on coal by the Port of Newcastle. See “World’s biggest coal export port announces shift away from coal” published in the Guardian on January 5, 2018.

Section 3.1 - Social determinates of health (defined and summarized on page 12)

Comment Number: MBTL-HIA-00102-8

Commenter: Patricia Bode

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

- Cowlitz County consistently ranks near the bottom of Washington counties in health indicators and would be at even greater risk of health effects than other parts of Washington.

Comment Number: MBTL-HIA-00103-12

Commenter: Kevin Baier

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

*Cowlitz County and affected neighborhoods would be at even greater risk of health effects than other parts of Washington (p. 15).

Comment Number: MBTL-HIA-00104-9

Commenter: rejean idzerda

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Cowlitz County and affected neighborhoods would be at even greater risk of health effects than other parts of Washington. (p. 15)

Comment Number: MBTL-HIA-00123-13

Commenter: Jane Middlesworth

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The draft shows Cowlitz County and affected neighborhoods would be at even greater risk of health effects than other parts of Washington.)

Comment Number: MBTL-HIA-00178-6
Commenter: Cynthia Bower
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

Cowlitz County consistently ranks near the bottom of Washington counties in health indicators and would be at even greater risk of health effects than other parts of Washington State.

Comment Number: MBTL-HIA-00210-1
Commenter: Barbara Kaye
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Low income and Native American communities are consistently ignored when it comes to public health issues like this.

Comment Number: MBTL-HIA-00218-6
Commenter: Elizabeth Barger
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

Cowlitz County consistently ranks near the bottom of Washington counties in health indicators and would be at even greater risk of health effects than other parts of Washington.

Comment Number: MBTL-HIA-00225-1
Commenter: Tina Smusz
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Cowlitz County consistently ranks near the bottom of Washington counties in health indicators and would be at even greater risk of health effects than other parts of Washington. This brings up serious human rights issues related to disproportionate impact on lower socioeconomic communities.

Comment Number: MBTL-HIA-00249-4
Commenter: Jennifer Nitz
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

Cowlitz County and affected neighborhoods would be at greater risk of health effects than other parts of Washington (p. 15).

Section 3.2 - Employment

Comment Number: MBTL-HIA-00015-1
Commenter: Spencer Boudreau

Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Millennium Bulk Terminals is a great project for Cowlitz County. Our community has been in a constant economic decline for near forty years. This huge job creator will lessen that. In my lifetime alone, we've seen a thousand or more family wage jobs lost. Why continue it? Why deprive my generation of prosperity? In addition, Millennium has tried time and time again to go with the demands of the state department of ecology. If they really didn't care about this community, they would've packed up and left already. They're willing to take any measure necessary to build this terminal. We've got to make this happen. Longview is the northwest's industrial center. We've got to get our folks back to work with this project.

Comment Number: MBTL-HIA-00030-1

Commenter: James McClean
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

I support the coal project 100%
We need more industry in the area that helps provide local jobs, which in turn put money back into the community. Why are we red taping a business that could help our community?

Comment Number: MBTL-HIA-00030-3

Commenter: James McClean
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Approve coal, bring a thriving business to our town.

Comment Number: MBTL-HIA-00099-4

Commenter: Inga Fisher Williams
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

3.) Negligible Job impacts from MBT operation. The often cited economic development and job generation as a driver of MBT development despite its health risks are negligible. Aside from temporary increase during construction, the long-term job generation for permanent employment is small as stated in the Draft HIA: 'Industrial land does not frequently produce the highest density of jobs, when compared to areas of mixed-use, office, or commercial development. For example, most downtowns or business centers will offer more jobs per acre than are proposed for the MBTL site.'

Comment Number: MBTL-HIA-00100-3

Commenter: David Hupp
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

How many jobs are projected by Millennium for their export terminal and how do these projections compare with Washington's statewide employment?

Ambre/Arch's study projects 2,650 construction jobs and 135 permanent, full-time jobs at full build-out of the Millennium terminal. [Footnote 6. Economic impact study conducted for Millennium by Seattle consultant BERK.] Washington statewide nonfarm employment in May 2012 equalled 5,300,000 jobs. [Footnote 7. Washington state monthly employment report (<https://fortress.wa.gov/esd/employmentdata/docs/economic-reports/current-monthly-employment-report.pdf>)] The Millennium construction jobs amount to 5/100th of 1% of the state-wide total. The permanent jobs amount to 2/100th of 1%.

Comment Number: MBTL-HIA-00161-1

Commenter: Tom Turner

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

On the plus side of course, the proposed coal export terminal would create lots of jobs in health care and mortuary industries.

Section 3.3 - Alternative site uses

No comments are associated with this issue.

Section 3.4 - Impacts to other aspects (tourism, service economy, river economy) of local economy

Comment Number: MBTL-HIA-00027-1

Commenter: Jackie Critser

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The Northwest is a major recreational destination for wilderness enthusiasts, fishing, windsurfing, and our agriculture, and we are famous for our old growth forests, pristine waterways and clean air. All of those vital industries would be adversely affected by the proposed Millennium project.

Comment Number: MBTL-HIA-00039-033-2

Commenter: Susan Bistline

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

They also go right through our small tourist town.

Comment Number: MBTL-HIA-00039-046-1

Commenter: Barbara Harper

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Coal is dirty. Washington is a state that attracts many visitors and tourists. Even passing through on vacations and touring, this is a health risk even to those who do not live there. Clean energy is the future and coal must be stopped for many reasons.

Comment Number: MBTL-HIA-00088-1

Commenter: William Herke

Commenter Type: General Public

Classification: Technical

Other Sections: 4

Comment Excerpt Text:

Denying all permits for this coal terminal is a no brainer, In addition to all the health problems it would cause, it will seriously damage the tourism industry of the area. I have visited the area twice because of its beauty. It would be criminal to damage that beauty.

Section 3.5 - Effect on taxes and impact on health

No comments are associated with this issue.

Section 3.6 - Accountability if MBTL leaves or files for bankruptcy

Comment Number: MBTL-HIA-00094-5

Commenter: Marilee Dea

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Who is going to clean this up when this coal terminal goes bankrupt? Why do I say this? The future of Fossil Fuel and Coal in particular, is questionable. France is stopping all coal use in five years; Italy, Germany, Mexico, S. Korea and New Zealand are considering that as well. At Cop 23 (UN world Climate Conference) this past fall- 25 countries declared their stoppage of Coal mining and export. Portland and St Louis plans to stop all electricity from Coal by 2035 and St Louis voted to be 100% renewable energy by 2035. Many coal plants are being retired, like Boardman and new ones are not being built. They are too expensive and dangerous to build compared to clean energy. Shares of US electricity from coal fell by 31% in 2016 with a forecast of another 40% fall in the near future. Coal cannot compete with cheaper clean energy. Coal will be a fossil fool in every sense of the word. Longview could be caught holding another unfunded super fund site if they accept the coal terminal, and the negative health impacts will continue long past the short life of this coal terminal.

Section 4 - Community Health

Comment Number: MBTL-HIA-00002-4

Commenter: Darvel Lloyd

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Longview residents continue to be adversely affected by Kapstone Kraft Paper Corporation. And now another gargantuan polluter wants to heap on misery and suffering to the unfortunate 37,330+ residents of Cowlitz County! Haven't these people suffered enough over the many generations of environmental degradation?

Comment Number: MBTL-HIA-00010-1

Commenter: Keara Berlin

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I am glad that a report on the environmental impacts of the Millenium project has been drafted. I hope that you will take the report's findings into serious consideration and ensure that the project does not cause any negative effects on the community. I am especially concerned about the possibility of an increased risk of cancer and the barriers this project might present to indigenous peoples fishing rights in the area. Please do everything in your power to continue appraising the environmental impact of this project, and do everything you can to mitigate them. Thank you very much for considering this comment.

Comment Number: MBTL-HIA-00012-1

Commenter: Michelle Sheldon

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

I live directly across from Longview in Rainier, OR and am 100% against this project. As you know, whatever is spewed into Longview's air and water is also spewed into mine. As you also already know, Rainier residents are closer to the proposed terminal(s) that most residents of Longview which the study covered.

Comment Number: MBTL-HIA-00018-4

Commenter: Peter Kerr

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Better solutions ARE NOT:

*Increased cancer rates in communities

Comment Number: MBTL-HIA-00018-8

Commenter: Peter Kerr

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

*Increased risk of exposure to toxic polycyclic aromatic hydrocarbons

Comment Number: MBTL-HIA-00019-1

Commenter: Frank Forencich

Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

I am a health professional and I am very concerned about the possible health and environmental impacts of the proposed Millennium Bulk Terminals coal project in Longview, WA. I am also a member of Physicians for Social Responsibility. As you may know a recently released Health Impact Assessment reaffirms the serious health impacts of the proposed terminal. Please reject the proposed terminal.

Comment Number: MBTL-HIA-00020-1
Commenter: R Rapport
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

*AS RECENTLY PROVEN, DERAILMENTS ARE DEADLY

Comment Number: MBTL-HIA-00021-1
Commenter: Roger Wechsler
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Please do not allow the Millenium Coal Terminal. It would be bad for health of all, especially children, elderly, and those with respiratory conditions.

Comment Number: MBTL-HIA-00021-2
Commenter: Roger Wechsler
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

The HIA this week released these findings on consequences of the proposed coal terminal: * Increased cancer rates in communities near the rail line.

Comment Number: MBTL-HIA-00022-3
Commenter: Stephen Bachhuber
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

I am still concerned for the people of Longview and the many friends I have who still live there. The MBTL will increase their health hazards significantly.

Comment Number: MBTL-HIA-00025-1
Commenter: larry wilhelmsen
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

Separating the science from the politics!

The science of the potential hazards from diesel smoke and particulate that might cause cancer and deaths can not be directly tested as this is outlawed. The EPA must use animal testing and statistical inference. They do have tests on animals at high doses and extrapolate to zero assuming death will continue at lower doses. A little common sense will tell us this is very misleading. An example is we use a very toxic chemical to add fluoride to our drinking water even though there is extensive health data saying the slight reduction in tooth decay has been offset by other adverse health effects. Our tooth paste has a clear warning to call the poison center if swallowed. Dr. James Engstrom on August 12, 2017 presented a paper at a DDP meeting titled: ACS cancer prevention study (CPSII) has exaggerated PM 2.5 premature deaths. He quotes that a 2017 Dose-Response Article Found no PM 2.5 risk in CPSII based on best data. Dr Robert Phalen, a toxicologist, gave a paper: View of PM 2.5 and human health-at the same conference. Questions after the paper asked about Asthma and data show that rates are going up while particulates are dropping. Also Ozone does not increase Asthma as it is caused by allergies. Dr Edward Calabrese, another Toxicologists, gave a paper at the August 1, 2015 DDP meeting titled: How NAS Misled the World Community on Cancer Risk Assessment. He goes into great detail explaining a Nobel Prize scientist in the war years claimed a linear response to zero based on radiation studies. The EPA to this day still uses this concept even though it is not practiced worldwide We now have many examples of a Hormesis effect where low doses can have positive influences. An apartment building in China that had high Radon and Cobalt 60 radiation had lower cancer rates for inhabitants compared to those close by. Methyl Mercury a very toxic compound has positive influences at very low concentrations. Clearly many of the chemicals used around the household contain carcinogens. Finally the EPA recently admitted they misapplied data in California when estimating health effects from air pollution. CLEARLY CANCER DEATH RATES IN THE REPORT NEED TO BE HEAVILY DISCOUNTED!

Comment Number: MBTL-HIA-00025-4

Commenter: larry wilhelmsen

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Please be aware that for \$18/year each citizen can be supplied daily 1000mg vitamin C and 2000mg vitamin D. The boost to the immune system would more than compensate for anything from industrial activity. In fact let's pay for the vitamins for anyone living within one mile of the rail tracks using tax money from the development. Support for vitamin C use is given at the IVC & Chronic Illness Symposium, October, 2016. Andrew Saul and several MD's give many comments on historic applications to significant diseases. You can not overdose in personal use!

Comment Number: MBTL-HIA-00029-1

Commenter: William Newmann

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I am a Family Physician who has worked in Olympia since 1982 both employed at Group Health Cooperative and doing volunteer work with the Thurston County department of Health and the Olympia Free Clinic. I have treated many patients with chronic lung disease as a result of tobacco smoking and, riot to this, I have witnessed the complications of patients who have suffered the adverse consequences from coal dust exposure, during my training treating patients who worked in the coal mines of Appalachia.

I urge that you recommend that Cowlitz Count reject the project proposal a coal terminal based on the findings found in the recent draft of the Health Impact Assessment, including, but not limited to:

* Increased cancer rates in communities near the rail line. *

Comment Number: MBTL-HIA-00034-1
Commenter: Liz Kellebrew
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

I'm very concerned about the negative health consequences of this project. I grew up in Cowlitz County and still have friends and family there. I lost my grandmother, a life-long Cowlitz County resident, to cancer at the age of 58. For decades we've known about the terrible effects of pollution in Cowlitz County on local cancer rates, and the MBTL project promises yet more pollutants and more cancer.

Comment Number: MBTL-HIA-00038-2
Commenter: Don Steinke
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

I was disappointed that The Daily News chose to down play the risks by focusing on the probably of cancer. One cancer in a certain population can seem small, but for each cancer, there could be 100 cases of asthma. If you don't have asthma, it is easy to dismiss it, but Republicans and Democrats alike get asthma. A well-known Republican PCO had supported the oil terminal in Vancouver, but after developing asthma, he became concerned about the number of diesel locomotives that would be needed to haul the trains through his neighborhood, and recruited me to help fight the proposal.

Comment Number: MBTL-HIA-00039-004-1
Commenter: A Bonvouloir
Commenter Type: General Public
Classification: Non-technical
Other Sections: 2 5.4
Comment Excerpt Text:
Air, water, land, and indigenous people.

Comment Number: MBTL-HIA-00039-012-1
Commenter: Carlos & Casey Sundermann
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

As a teacher I know of many students with asthma. It is not acceptable to put coal profits over children's health.

Comment Number: MBTL-HIA-00039-014-1
Commenter: john pasqua
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

bad for health.

Comment Number: MBTL-HIA-00039-015-1

Commenter: terry heiser

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

bad for our children

Comment Number: MBTL-HIA-00039-025-1

Commenter: Mary Shaughnessy

Commenter Type: General Public

Classification: Non-technical

Other Sections: 2.1 5.1

Comment Excerpt Text:

Cancer rates will increase in populations along the coal line, coal dust and diesel particulate matter exposure will jeopardize the health of communities along the rail line, and the noise they will experience will further torment them.

Comment Number: MBTL-HIA-00039-026-1

Commenter: Sally Duffy

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Citizens in our community are already suffering from the effects of the coal trains running through Spokane.

Comment Number: MBTL-HIA-00039-034-1

Commenter: Carol Newman

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Coal export is toxic to public health especially in Cowlitz County.

Comment Number: MBTL-HIA-00039-047-1

Commenter: Gregory Fite

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Coal is filled with dangerous chemicals and heavy metals such as mercury and cadmium, that when released in the air, pose a serious health threat to humans and animals, including the rich aquatic life of the Columbia River.

Comment Number: MBTL-HIA-00039-048-1

Commenter: Virgene Link

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Coal is harmful to our health and the environment. This dirty energy will come back to us in the air we breathe, causing health problems

Comment Number: MBTL-HIA-00039-060-1

Commenter: Gail Roberts

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Fossil fuels are known to be dangerous to public health.

Comment Number: MBTL-HIA-00039-064-1

Commenter: martin donohoe

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

i am a physician, parent, and educator, and very concerned about the associated health hazards and environmental and health costs Martin Donohoe, MD, FACP

Comment Number: MBTL-HIA-00039-068-2

Commenter: Kelly O'Hanley

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I am an OBGYN. Studies elsewhere have shown negative impact from coal exposure on fetal outcomes.

Comment Number: MBTL-HIA-00039-075-1

Commenter: Elizabeth Cunningham

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I am very concerned because many children suffer fro asthma already and allowing this debacle to pass is unthinkable.

Comment Number: MBTL-HIA-00039-077-1

Commenter: Karol Dietrich

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I grew up in coal country with dirty air, dirty railcars dropping bits of coal along their tracks, sick and coughing people, lung disease, skin problems..

Comment Number: MBTL-HIA-00039-078-1

Commenter: Elizabeth Kellebrew- Davies

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I grew up in Cowlitz County and still have friends and family there. I lost my grandmother, a life-long Cowlitz County resident, to cancer at the age of 58. For decades we've known about the terrible effects of pollution in Cowlitz County on local cancer rates, and the MBTL project promises yet more pollutants and more cancer.

Comment Number: MBTL-HIA-00039-083-1

Commenter: Chris Stay

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I live in a town along a rail line. I used to love looking at the trains passing by. Now there are miles-long coal and oil trains. I spend a lot of time wondering how the coal trains affect our health, and worrying about oil trains derailing.

Comment Number: MBTL-HIA-00039-084-1

Commenter: Randy Sailer

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I live in coal country and know first hand the negative health effects of coal. I urge you to protect the health of the people of Washington and reject the coal export terminal/port.

Comment Number: MBTL-HIA-00039-086-1

Commenter: Mary and Klaus Neuendorf

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I want a world without the pollution that coal export would have on our health.

Comment Number: MBTL-HIA-00039-087-1

Commenter: Kate Schmitt

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I'm a native of Appalachian coal country. My relatives there have suffered lifelong from asthma and brown and black lung. The health risks associated with coal are real. They are fact.

Comment Number: MBTL-HIA-00039-089-1

Commenter: elyette weinstein

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Increased cancer for people is never a good thing. Companies don't care about people like other people do. As a responsible Washingtonian it is my civic duty to speak up for the health of others who may be adversely impacted by this project.

Comment Number: MBTL-HIA-00039-090-1

Commenter: Alex Mach

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

It kills people.

Comment Number: MBTL-HIA-00039-091-1

Commenter: Perry Gx

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

It's A True Health Hazard w/ INCREASED Rates Of Cancer, High Blood Pressure, Etc!!!

Comment Number: MBTL-HIA-00039-097-1

Commenter: Don & Rita Gillespie

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

My family and I live here and this is a danger to our health. We moved here because of the beauty, and the clean environment. Now those qualities are under attack. We want to keep Kalama clean.

Comment Number: MBTL-HIA-00039-099-1

Commenter: Patricia Warden

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

My husband has asthma. He and millions like him need our air to be clean.

Comment Number: MBTL-HIA-00039-100-1

Commenter: Mona McNeil

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

My wonderful husband died of lung cancer. Coal puts others at risk from the mines, to the rails, to the terminal, to the ships, to the air in other countries.

Comment Number: MBTL-HIA-00039-102-1

Commenter: Roger Rocka

Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

No one doubts anymore that coal miners have terrible health outcomes. The health dangers of coal continue when it is transported and when it is burned.

Comment Number: MBTL-HIA-00039-112-2
Commenter: Lisa Waldvogel
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

While I remain concerned about the influence of Millennium on this HIA process, the data still was striking. The draft shows the project will have huge impacts: Increased cancer rates in communities near the rail line.(p.8)

Comment Number: MBTL-HIA-00039-113-3
Commenter: Gary Lindstrom
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

As one well experienced in material bulk handling the proposed coal terminal cannot and should not be acceptable within our communities and as well alongside the Columbia River itself a lifeline for all of our lives. Coal would isolate us and cause terminal illness.

Comment Number: MBTL-HIA-00039-131-1
Commenter: Carolyn Villanova
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

There is no such thing as clean coal. It's killing us.

Comment Number: MBTL-HIA-00039-134-1
Commenter: Phil Brooke
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

This coal terminal is a horrible horrible thing for our community's health, and that of all pass through communities,

Comment Number: MBTL-HIA-00039-145-1
Commenter: Mary Jo Coblentz
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

We must consider the detrimental health effects to many as well as the health care costs and environmental degradation born by society.

Comment Number: MBTL-HIA-00039-153-1

Commenter: Meryle Korn

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Why do I care? I live in Bellingham, far from the Columbia River whose banks I grew up near. But we don't stop caring for a beloved part of home just because we moved away. I care about the health of the Columbia and the health of the people who live by and/or make a living from the river. Coal has a huge negative impact on human health and on the health of the planet.

Comment Number: MBTL-HIA-00039-3

Commenter: Jasmine Zimmer-Stucky

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

The draft shows the project will have huge impacts:

- Increased cancer rates in communities near the rail line.(p.8)

Comment Number: MBTL-HIA-00040-1

Commenter: Pete Von Christierson

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

As you prepare your environmental report on the coal port, please consider the following taken from the Health Impact Assessment:

* Increased cancer rates in communities near the rail line.

Comment Number: MBTL-HIA-00044-1

Commenter: Jeffrey Panciera

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

I would first like to protest the wide-spread feeling that we have to promote business and corporate success no matter the damage to public health. Corporations have a long and ugly history of discounting their effect on local residents. For example, in the mid1940s, the town of Anniston, Alabama had a Monsanto plant which caused an extremely high rate of cancer among the citizens of this town. We can also cite Love Canal, which had to be abandoned because of toxic chemicals. Our country is dotted with lagoons of various types of waste: animal, coal ash, mine tailings which remain untreated and threaten the health of local people. It is well-known that people who live in the ultra-intensely industrialized oil coast of Louisiana have shorter lives than the rest of us in the

USA. Corporations are asking us not to mind these conditions in service to 1) their personal fortunes and 2) the exploitation of a polluting, unsustainable fuel source. It is time to say NO and the studies from the health department and Physicians for Social Responsibility give us reasons to make a stand.

Comment Number: MBTL-HIA-00050-1

Commenter: Barbara Gottlieb

Commenter Type: General Public

Classification: Non-technical

Other Sections: 2 5.1 5.5

Comment Excerpt Text:

Having visited Oregon's Columbia River as a tourist with my family, I would like to share my concerns about this proposal. It would be extremely harmful to the health of everyone living in the river valley to have this massive coal export terminal built. The terminal as well as the related train traffic would (as your HIA indicates) pose real threats of cancer, air pollution, noise pollution and contamination of food sources.

Comment Number: MBTL-HIA-00050-3

Commenter: Barbara Gottlieb

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Communities near the rail line are most likely to be harmed.

Comment Number: MBTL-HIA-00056-1

Commenter: Harry Kershner

Commenter Type: General Public

Classification: Non-technical

Other Sections: 2.4

Comment Excerpt Text:

According to the draft Health Impact Assessment, this proposed coal terminal would increase cancer rates, clog rail lines, and cause huge climate impacts. Why would anyone favor this?

Comment Number: MBTL-HIA-00063-4

Commenter: Michael Gochfeld

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

As a physician specializing in occupational and environmental disease, I am most impressed by the health effects to children and adults, including heart disease, lung disease, and asthma. - Communities near the rail line are likely to experience increased cancer and heart disease rates.

Comment Number: MBTL-HIA-00066-1

Commenter: Peter Cornelison

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

As a resident of the Columbia Gorge and a Hood River City Councilman I am concerned about the health impacts not only to Longview and Cowlitz County but to Clark, Skamania and Klickitat Counties and the Columbia River.

Comment Number: MBTL-HIA-00069-1
Commenter: Daniel Weise
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

Yo! Dudes!

How much more bad health do you want in your communities. Cancer is not fun. Asthma is not fun. The draft HIA makes it pretty clear to me that the Millennium project needs to be abandoned to help keep your community healthy.

Comment Number: MBTL-HIA-00070-1
Commenter: Glenda Carper
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

As a retired health professional who has helped people with respiratory problems and other health concerns, I am very concerned about this proposed project and the negative health effects it would have. So I ask you to read the following and to reject the project to protect the citizens of Cowlitz County and everyone who comes there or passes through.

Comment Number: MBTL-HIA-00072-1
Commenter: Sabra Hull
Commenter Type: General Public
Classification: Non-technical
Other Sections: 5.4 2

Comment Excerpt Text:

The draft HIA prepared by Cowlitz County and the Washington Department of Health presents some alarming analysis of potential air and water quality issues, and consequent potential health impacts of this proposal. Both human and aquatic communities would be affected, and I see no remedy for these impacts.

Comment Number: MBTL-HIA-00074-1
Commenter: Janice Doherty
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

What happens in Cowlitz County ultimately impacts the environment throughout WA state and the global environment. The continued effort to process and move coal near Longview quickly impacts the health and wellbeing of residents in that specific community.

Comment Number: MBTL-HIA-00074-3
Commenter: Janice Doherty
Commenter Type: General Public
Classification: Non-technical
Other Sections: 2.1 4.2 5.2
Comment Excerpt Text:

The Hanford area was designated as a "national sacrifice zone" in matters related to the development of nuclear power. Spokane County is just one area of eastern WA impacted with higher cancer rates related to fallout from "The Green Run" and other radiation experiments and mistakes at Hanford. Cowlitz County should not be designated the current "sacrifice area" for supporting the coal industry as it gradually becomes obsolete. Examples: negative health effects from inhaling coal dust and diesel; increased wait times for emergency response personnel waiting for train crossings; further deterioration of fish and seafood harvests, particularly as related to local tribes who have already suffered significant harm to their fishing and cultural sites

Comment Number: MBTL-HIA-00087-003-1

Commenter: Barbara Scharff

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I am concerned about a likely increase in cancer rates, as well as increased asthma and cardiovascular problems for people near the export facility, as well as the region at large.

Comment Number: MBTL-HIA-00087-006-1

Commenter: Arthur Birkmeyer

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Peoples daily quality of life is a big factor in peoples health. The fact that this project will negatively dominate and reduce the quality of life for all citizens needs to be one of the negative health hazards of the project and needs to be listed. There is no way this project will leave the quality of life for all Longview citizens as it is or improve it. LIST THIS AS A UNREMITABLE HEALTH HAZARD. I'm particularly upset and concerned with the air pollution issues the Millennium Project will expose specifically all the residents living in the Longview Air Shed to. THERE IS NO CURTAIN OR WALL THAT WILL CONTAIN THE AIR POLLUTION SO IN EFFECT ALL OF LONGVIEW IS EXPOSED THE ITS HEALTH HAZARD. You mention CANCER but there is no specific mention of the

Comment Number: MBTL-HIA-00087-008-1

Commenter: Shirley Lutz

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

So many friends & acquaintances have COPD and would likely be affected by so much coal and would have to move.

Comment Number: MBTL-HIA-00087-009-1

Commenter: Rick Rappaport

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I've read the draft assessment and in my opinion the health risks cannot be traded off for the construction jobs that this project promises. The very people who would get some of these construction jobs are the ones who will be at

the epicenter of the health hazards. And no they cannot be the only ones with a say in what should happen. Longview is not an isolated community when it comes to the dramatically increased coal train traffic that would relentlessly pound the Columbia River and gorge, and produce global warming factorial not seen before in the Pacific Northwest.

Comment Number: MBTL-HIA-00087-012-1

Commenter: Janet Roxburgh

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

The mortality rates from respiratory and cardiovascular diseases alone show why there shouldn't be a coal export project. Neighborhoods should not become a "sacrifice zone" to corporate interests.

Comment Number: MBTL-HIA-00087-013-1

Commenter: David and Ann Cordero

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

We live in Longview, WA, and want to protect the health of our community as well as fight climate change.

Comment Number: MBTL-HIA-00087-016-1

Commenter: Bonnie McKinlay

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

The proposed Millennium Coal Export Terminal saddles Longview community members and people living along the rail route with increased health risks. These affected communities should not be subjected to the toxins, some known carcinogens, emitted through the transport and storage process.

Comment Number: MBTL-HIA-00087-019-1

Commenter: Megan Richie

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I am concerned about several issues. The increase chances of myself and my family getting cancer, Asthma, psoriasis or other health conditions.

Comment Number: MBTL-HIA-00087-019-4

Commenter: Megan Richie

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

My health, My family's health, My friends and neighbors health are all important and should be invested in, not attacked.

Comment Number: MBTL-HIA-00087-020-1

Commenter: Diana Richardson

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Cancer, asthma, bronchitis, to name a few concerns

Comment Number: MBTL-HIA-00087-022-1

Commenter: Jennifer Darling

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I am concerned about human health effects, but especially about the lingering environmental pollution and how it will continue to effect wildlife, land, air, water, for generations to come.

Comment Number: MBTL-HIA-00087-023-1

Commenter: marilee dea

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Health Impacts of the Millemmium Coal Terminal, December 2017 Marilee Dea, MSRN, Public Health Pediatric Nurse Practitioner, in that capacity I coordinated of Multnomah Counties Lead Poisoning and Asthma prevention program. Coal exports are a threat to the health of Columbia Gorge communities and particularly the shoreline near the already medically challenged Highland district of Longview. It will increase their risk of asthma, heavy metal poisoning, cancer and cardiac impairment; it will also jeopardize safety, environment and climate health.

Comment Number: MBTL-HIA-00088-1

Commenter: William Herke

Commenter Type: General Public

Classification: Technical

Other Sections: 3.4

Comment Excerpt Text:

Denying all permits for this coal terminal is a no brainer, In addition to all the health roblrems it would cause, it will seriously damage the tourism industry of the area. I have visited the area twice because of its beauty. It would be criminal to damage that beauty.

Comment Number: MBTL-HIA-00094-1

Commenter: Marilee Dea

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Coal exports are a threat to the health of Columbia Gorge communities and particularly the shoreline near the

already medically challenged Highland district of Longview. It will increase their risk of asthma, heavy metal poisoning, cancer and cardiac impairment; it will also jeopardize safety, environment and climate health.

Comment Number: MBTL-HIA-00096-26

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

2. IMPACTS ON VULNERABLE POPULATIONS

Woven into Section II (Health Evaluation) and Appendix I (Air Quality) is a detailed analysis of the baseline health of the local community and projected disproportionate impacts on vulnerable communities, including persons with underlying health conditions, and vulnerabilities associated with low-income, race, and other demographic factors. It includes a discussion of the social determinants of health as they are manifest in the local community.

The document includes some additional analysis on the disproportionate impact of increased rail traffic on vulnerable and low-income communities. Disproportionate impacts of rail and marine accidents, toxic spills, and potential contamination of food and drinking water are not discussed. This is a violation of the principle of “Equity” established by the International Association of Impact Assessment. [Appendix I]

For further detail see pages 40-41, Oregon and Washington Physicians for Social Responsibility Comments on Draft Environmental Impact Statement for Millennium Bulk Terminals Longview. [Appendix II]

Comment Number: MBTL-HIA-00096-39

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 2.1 2.4 5.1

Comment Excerpt Text:

Conclusions

Oregon and Washington PSR conclusions are based on the DHIA, the FEIS, the Decision of the Shorelines Hearing Officer, the Assessment of Health and Safety Implications of Coal Transport through Oakland, hundreds of peer-reviewed journal articles and include:

- Coal pollutants affect all major body organ systems and contribute to 4 of the 5 leading causes of death in America, including heart disease, cancer, stroke, and chronic respiratory disease.
- Transportation of coal by rail through Longview and the transfer of coal through the proposed MBT export terminal will increase exposures to air pollutants with known adverse health effects including deaths.
- There are no proven methods to eliminate or reduce the emission of these pollutants to a safe level.
- There are inherent hazards in transporting and handling coal, including the risk of catastrophic explosion.
- The combustion of coal exported from Longview will contribute to global climate change, resulting in additional

adverse health risks to Cowlitz County residents and others.

- Impacts of coal transport and handling, including noise impacts, will be greatest along the railroad and near the terminal in neighborhoods already burdened by significant health inequities.

Comment Number: MBTL-HIA-00102-5

Commenter: Patricia Bode

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

- Communities near the rail line are likely to experience increased cancer rates.

Comment Number: MBTL-HIA-00103-2

Commenter: Kevin Baier

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

While I remain concerned about the influence of Millennium on this HIA process, the data provided was striking. The draft shows the project will have huge impacts:

*Increased cancer rates in communities near the rail line.

Comment Number: MBTL-HIA-00104-1

Commenter: rejean idzerda

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Thank you for this opportunity to comment on the draft HIA for the Millennium (MBTL) coal export project. I am a former UW Associate Professor of Medicine and Pharmacology and a specialist in endocrinology. I appreciate the thorough analysis reported in the draft HIA and am concerned with the numerous alarming health impacts it identifies. A large portion of the community will be subject to a 10% increase in risk of cancer due to particulates. (p.9) *plus growing evidence of stroke, Type 2 diabetes, neurological and cognitive impairment, and pre-term and low-birth weight babies. (p.9) *Cowlitz County and the neighborhoods that would be most impacted by increased noise already experience higher than average rates of these diseases and that increased noise will contribute to further increase in these rates. (p. 23)

Comment Number: MBTL-HIA-00108-1

Commenter: Donald Lightfoot

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

This draft provides the basis for strong recommendations from the HIA Steering Committee to prevent enormous human health and environmental health loss. This health loss will occur widely all along the rail lines and within miles of the coal terminal.

Comment Number: MBTL-HIA-00130-2
Commenter: Michael Soman
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

As an experienced physician who was the President of a physician's group caring for almost 1/2 million Washingtonians, I must speak out against this project due to the dramatic negative health consequences.

Comment Number: MBTL-HIA-00153-2
Commenter: Mary Headrick
Commenter Type: General Public
Classification: Technical
Other Sections: 2 5.1 5.5

Comment Excerpt Text:

The HIA shows that Millennium would pose real threats of cancer, air pollution, noise pollution and contamination of food sources:

Comment Number: MBTL-HIA-00156-1
Commenter: Gerard Redpath
Commenter Type: General Public
Classification: Technical
Other Sections: 2 5.1 5.5

Comment Excerpt Text:

The HIA shows that it would pose real threats of cancer, air pollution, noise pollution and contamination of food sources

Comment Number: MBTL-HIA-00157-2
Commenter: Mike McCool
Commenter Type: General Public
Classification: Non-technical
Other Sections: 2 5.5

Comment Excerpt Text:

The HIA has shown that it would pose real threats of cancer, air pollution, and contamination of food sources:

Comment Number: MBTL-HIA-00160-8
Commenter: Susan Haywood
Commenter Type: General Public
Classification: Non-technical
Other Sections: 2 5.1 5.5

Comment Excerpt Text:

The HIA shows that it would pose real threats of cancer, heart and lung disease, neurological impairment, air pollution, noise pollution and contamination of food sources:

Comment Number: MBTL-HIA-00163-1
Commenter: Ayesha Gill
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

It is an absolutely horrible idea to implement the Millenium coal export terminal. The impact on the health of the people there would be severe.

Comment Number: MBTL-HIA-00174-1

Commenter: Richard Weiskopf

Commenter Type: General Public

Classification: Non-technical

Other Sections: 2 5.4 2.4 1

Comment Excerpt Text:

This project would be detrimental to air quality, water quality, human health, and global climate. It should be totally rejected.

Comment Number: MBTL-HIA-00178-2

Commenter: Cynthia Bower

Commenter Type: General Public

Classification: Technical

Other Sections: 2 5.1 5.5

Comment Excerpt Text:

The HIA concludes that it would pose significant threats of cancer, air pollution, noise pollution and contamination of food sources.

Comment Number: MBTL-HIA-00184-1

Commenter: Mary Mccall

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

The proposed terminal would have serious adverse effects, both directly and indirectly, on the health of the population.

Comment Number: MBTL-HIA-00185-1

Commenter: Emilie Marlinghaus

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

As a long time resident of Central OR, I am very concerned about the multiple negative impacts that this unnecessary and dangerous project pose to the good people of the Pacific Northwest - and especially the multiple serious health impacts as outlined below.

Comment Number: MBTL-HIA-00194-1

Commenter: Ruth Darden

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Without our health, we cannot be productive citizens.

Comment Number: MBTL-HIA-00199-2

Commenter: Bruce Hlodnicki

Commenter Type: General Public

Classification: Technical

Other Sections: 2 5.1 5.5

Comment Excerpt Text:

The HIA shows that it would increase the threats of cancer, air pollution, noise pollution and contamination of food and water sources:

Comment Number: MBTL-HIA-00202-1

Commenter: Tamar Lavy

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Human lives, including those of generations of children are at stake if the coal export terminal project is pursued.

Comment Number: MBTL-HIA-00205-2

Commenter: Rosemarie Carbino

Commenter Type: General Public

Classification: Non-technical

Other Sections: 2 5.1 5.5

Comment Excerpt Text:

The HIA already shows that it would pose real threats of cancer, air pollution, noise pollution and contamination of food sources:

Comment Number: MBTL-HIA-00210-2

Commenter: Barbara Kaye

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Coal is incredibly harmful to our environment and to public health.

Comment Number: MBTL-HIA-00211-5

Commenter: Kristin Fernald

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Risks of train derailment with toxic loads will be increased. Cancer rates will increase

Comment Number: MBTL-HIA-00231-2

Commenter: m'lou christ

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I am pleased it shows the detrimental impacts such a project would have: Increased cancer rates in communities near the rail line.

Comment Number: MBTL-HIA-00235-1

Commenter: Don Kelley

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

As a physician concerned about the adverse effects of coal on public health, I'm encouraged to see this draft health impact assessment (HIA) for the Millennium (MBTL) coal export project.

Section 4.1 - Health impacts from climate change in Cowlitz

Comment Number: MBTL-HIA-00018-2

Commenter: Peter Kerr

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

This project is an insult to the health and well-being of the good people of Cowlitz County and to the planet that is already suffering in the face of excess greenhouse gas emissions, at the tipping point of climate catastrophe.

Comment Number: MBTL-HIA-00031-1

Commenter: Alice Chew

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Please think about our children and grandchildren. If we do not work to reduce global warming, soon it will affect the health of all people on the earth. Even now we are told that global warming may be irreversible. Please make responsible decisions!

Comment Number: MBTL-HIA-00035-1

Commenter: Paula Rotondi

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

At present, virtually no place on Earth is unaffected by either environmental degradation, climate change or both. At the federal level, actions by the Trump Administration and Republicans in Congress are accelerating us toward the worst case climate change scenario in which no child born today has a chance for a decent, healthy future. By the time a child born today is middle age, the City of Miami will be uninhabitable; it's housing market (and others in the U.S. and around the world) will have collapsed causing cascading economic and social crises. Without immediate action to limit climate change, by the time a child born today is 82, that child will inhabit a world of collapsed civilizations, mass migration with refugee crises on virtually every continent, and unending fighting for drinkable water and adequate food. The children of today's richest and most powerful people will be confined within fancy biospheres where they consider how their parents and grandparents once enjoyed this entire beautiful Earth. So I ask you to oppose the Millennium Terminal, because decisions like yours, made at the local level are now what remains of our hope for a decent healthy future for our children.

Comment Number: MBTL-HIA-00039-003-7

Commenter: Richard Creswell

Commenter Type: General Public

Classification: Non-technical

Other Sections: 2 5.2 4.3

Comment Excerpt Text:

Air pollution, Mercury/water/ fish / playground pollution, Global climate change upon us now

Comment Number: MBTL-HIA-00039-11

Commenter: Jasmine Zimmer-Stucky

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

- Changes in Washington's climate in the near and midterm future will likely increase hazards to human health and increase health disparities. Without preventative and protective measures, this will worsen a variety of health outcomes.

Comment Number: MBTL-HIA-00042-2

Commenter: Debbie Dominguez

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

As an advocate of a clean energy future, I agree with the comments posted below. I cannot allow such a dirty energy source to increase pollution and climate change that will have serious consequences for my grandchildren's future and all America's grandchildren. We can no longer ignore the disastrous effects of climate change on future generations. Think about THEIR FUTURE, not some coal corporations massive profits!*****

Comment Number: MBTL-HIA-00074-2

Commenter: Janice Doherty

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Continued efforts to extract, process, ship and burn coal impacts the health and wellbeing of people around the planet. It directly threatens the health and wellbeing of all life forms on Earth.

The vast majority of climate scientists know this. Yet the coal industry, in partnership with other fossil fuel extractors, defy even the studies conducted more than twenty years ago by Exxon and continue to seek short-term profits for their own satisfaction.

The task in every community is to find ways to address the impact of global warming on their community.. For Cowlitz County, there should be a clear rejection of the MBTL project and continued efforts to protect the communities and environment in southwestern WA.

Comment Number: MBTL-HIA-00096-12

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

5. GLOBAL CLIMATE CHANGE: The DHIA includes a detailed analysis of the adverse effects of global climate change on the residents of Cowlitz County. It notes that “changes in Washington’s climate in the near and midterm future will likely increase hazards to human health and increase health disparities. Without preventative and protective measures, this will worsen a variety of health outcomes.” It also states, “What is certain is that if increasing global GHG emissions from human activities continues on a business as usual path, residents in Washington and Cowlitz County will experience far greater harms than if the level of GHG emissions at the global level are dramatically reduced sufficient to arrest the increase in atmospheric GHG concentrations and limit global warming to under 2 degrees Celsius.” The assessment, however, declines to acknowledge the negative impact of the proposed coal terminal to global climate change.

Comment Number: MBTL-HIA-00096-29

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

5. GLOBAL CLIMATE CHANGE

Part C (Community Health), Section II (Health Evaluation) responds briefly to the following question:

Question 8: What are the potential effects of climate change on Cowlitz County residents, their health, and the linkage to increased carbon dioxide (CO₂) from this project?

MBT plans to export 44 million metric tons from Longview each year. 44 million metric tons of coal yields about 90 million metric tons of carbon dioxide once it is burned. This is roughly on par with Washington State's current total annual carbon dioxide emissions. (page 20).

Appendix 2 (Climate Change) in the DHIA includes a more detailed discussion of global warming effects on local weather and environment and the potential adverse effects on Cowlitz County residents including: heat-related illness, respiratory disease, vector-borne illness, water- and food-borne disease, and extreme weather events and references the expected disproportional impacts on vulnerable communities.

In Appendix 2, net greenhouse gas (GHG) emissions from the proposed terminal are estimated based on various policy scenarios. The calculation of net increase in GHG emissions assumes that the same coal, if not transported through Longview, would still be extracted and distributed to international markets. This assumption is not supported by evidence.

While the DHIA states, “Today’s decisions concerning GHG emissions and reductions in the short term will determine the severity of climate events to come in the second half of the 21st century and beyond” the document then concludes: “While these potential emissions would contribute to GHG concentrations in the atmosphere, it would be difficult to attribute these particular emissions [from MBT] to a future projected degree of global warming, resulting climate effects, and resulting health effects.” [1, page 54]

Since the proportional contribution of any particular project to world-wide GHG emissions is never certain, the implication is that the impact on worldwide GHG emissions of any particular project cannot be taken into consideration. This represents a failure to apply reasonable and informed judgment in the face of uncertainty. It is a violation of the Precautionary Principle in public health practice. Additionally, it flies in the face of Washington state laws and policies which require reductions in GHG emissions to protect our climate and health.

For further assessment on the impact of global climate change see pages 2-6, Oregon and Washington Physicians for Social Responsibility Comments on Draft Environmental Impact Statement for Millennium Bulk Terminals. [Appendix II]

Comment Number: MBTL-HIA-00097-12

Commenter: C. Persons

Commenter Type: Organization

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

- The draft HIA mentions that proposed climate change mitigation in the FEIS is based on the one of four modeled scenarios that now no longer exists, the International and U.S. Energy Policy scenario. The Trump administration repealed the 2015 Clean Power Plan in October 2017. The HIA should recommend that climate change mitigation be based on the No Clean Power Plan scenario, which will double the climate change mitigation requirements as they will henceforth be based on Net Annual Emissions in 2028 of 3.76 million metric tons of CO₂e and Total Net Emissions, 2018-2018 of 51.25 million metric tons of CO₂equivalents.

Comment Number: MBTL-HIA-00102-3

Commenter: Patricia Bode

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

- Changes in our climate in the near and midterm future will increase hazards to human health and increase health disparities.

Comment Number: MBTL-HIA-00104-7

Commenter: rejean idzerda

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Changes in Washington's climate in the near and midterm future will likely increase hazards to human health and increase health disparities. Without preventative and protective measures, this will worsen a variety of health outcomes.

Comment Number: MBTL-HIA-00123-10

Commenter: Jane Middlesworth

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The draft shows changes in Washington's climate in the near and midterm future will likely increase hazards to health and increase health disparities.

Comment Number: MBTL-HIA-00124-11

Commenter: Jane Middlesworth

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The draft shows changes in Washington's climate in the near and midterm future will likely increase hazards to health and increase health disparities.

Comment Number: MBTL-HIA-00125-1

Commenter: CoreyE. Olsen

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

*Changes in Washington's climate in the near and midterm future likely increases hazards to human health and increases health disparities. Without preventative and protective measures, this worsens a variety of health outcomes.

Comment Number: MBTL-HIA-00126-1

Commenter: CoreyE. Olsen

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

*Changes in Washington's climate in the near and midterm future likely increase hazards to human health and increase health disparities. Without preventative and protective measures, this worsens a variety of health outcomes.

Comment Number: MBTL-HIA-00159-1

Commenter: William Ostrander, Jr.

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Changes in our climate in the near and midterm future will increase hazards to human health, wildlife, and increase health disparities.

Section 4.2 - Emergency response impacts

Comment Number: MBTL-HIA-00018-7

Commenter: Peter Kerr

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

*Significantly delayed traffic at at-grade crossings

Comment Number: MBTL-HIA-00039-14

Commenter: Jasmine Zimmer-Stucky

Commenter Type: Organization

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

Please acknowledge that the significance of the draft HIA is limited due to the severely constrained geographic scope of the study area. The section on impacts from 16 trains passing through at-grade crossings in Cowlitz County each day and related health impacts due to delayed emergency response time is sorely lacking. If improved, it would at least help inform the municipalities along the transportation corridor of potential impacts to their residents and emergency services.

Comment Number: MBTL-HIA-00039-6

Commenter: Jasmine Zimmer-Stucky

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

- A single train could delay traffic by 9 minutes at at-grade crossings. There will be 16 train trips each day at full operation. This could decrease accessibility of public services and increase wait times for emergency vehicles. (p.21)

Comment Number: MBTL-HIA-00074-3

Commenter: Janice Doherty

Commenter Type: General Public

Classification: Non-technical

Other Sections: 4 2.1 5.2

Comment Excerpt Text:

The Hanford area was designated as a "national sacrifice zone" in matters related to the development of nuclear power. Spokane County is just one area of eastern WA impacted with higher cancer rates related to fallout from "The Green Run" and other radiation experiments and mistakes at Hanford. Cowlitz County should not be designated the current "sacrifice area" for supporting the coal industry as it gradually becomes obsolete. Examples: negative health effects from inhaling coal dust and diesel; increased wait times for emergency response personnel waiting for train crossings; further deterioration of fish and seafood harvests, particularly as related to local tribes who have already suffered significant harm to their fishing and cultural sites

Comment Number: MBTL-HIA-00087-016-2

Commenter: Bonnie McKinlay

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Another cause for concern is the emergency response delay that would occur as mile-long (and longer) unit trains block public roadways.

Comment Number: MBTL-HIA-00097-7

Commenter: C. Persons

Commenter Type: Organization

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

Suggested recommendations:

- The draft HIA summarizes information from the FEIS on traffic delays caused during coal terminal operations. These traffic delays may mean increases in morbidity and injury for passengers in vehicles trying to access

emergency health care. The final HIA should include recommendations about how to mitigate those traffic delays, including strategies for staggering coal train arrival times to coincide with low traffic periods or even recommending that operations not begin until planned rail crossing upgrades are complete.

Comment Number: MBTL-HIA-00102-7

Commenter: Patricia Bode

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

- A single train could delay traffic by 9 minutes at at-grade crossings. There will be 16 train trips each day at full operation, creating a significant risk of delaying emergency responses.

Comment Number: MBTL-HIA-00103-10

Commenter: Kevin Baier

Commenter Type: General Public

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

Please acknowledge that the significance of the draft HIA is limited due to the severely constrained geographic scope of the study area. The section on impacts from 16 trains passing through at-grade crossings in Cowlitz County each day and related health impacts due to delayed emergency response time is sorely lacking. If improved, it would help inform the municipalities along the transportation corridor of potential impacts to their residents and emergency services.

Comment Number: MBTL-HIA-00103-5

Commenter: Kevin Baier

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

*A single train could delay traffic by 9 minutes at at-grade crossings. There will be 16 train trips each day at full operation. This could decrease accessibility of public services and increase wait times for emergency vehicles (p. 21).

Comment Number: MBTL-HIA-00104-2

Commenter: rejean idzerda

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

This could decrease accessibility of public services and increase wait times for emergency vehicles. (p.21)

Comment Number: MBTL-HIA-00123-5

Commenter: Jane Middlesworth

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The draft shows a single train can delay traffic by 9 minutes at at-grade crossings. -- decreasing accessibility of public services and increasing wait times for emergency vehicles.)

Comment Number: MBTL-HIA-00124-5
Commenter: Jane Middlesworth
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

The draft shows a single train can delay traffic by 9 minutes at at-grade crossings. -- decreasing accessibility of public services and increasing wait times for emergency vehicles.)

Comment Number: MBTL-HIA-00205-6
Commenter: Rosemarie Carbino
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

There will be 16 train trips EACH DAYy at full operation, creating a significant risk of delaying emergency responses.

Comment Number: MBTL-HIA-00218-5
Commenter: Elizabeth Barger
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

A single train could delay traffic by 9 minutes at at-grade crossings.

Comment Number: MBTL-HIA-00226-1
Commenter: Haley Ritter
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

There will be 16 train trips each day at full operation, creating a significant risk of delaying emergency responses, too.

Comment Number: MBTL-HIA-00249-3
Commenter: Jennifer Nitz
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

This would decrease accessibility of public services and increase wait times for emergency vehicles (p. 21).

Section 4.3 - Impact on recreation and active transportation (walking, biking, taking the bus)

Comment Number: MBTL-HIA-00039-003-7
Commenter: Richard Creswell

Commenter Type: General Public

Classification: Non-technical

Other Sections: 2 5.2 4.1

Comment Excerpt Text:

Air pollution, Mercury/water/ fish / playground pollution, Global climate change upon us now

Comment Number: MBTL-HIA-00039-066-2

Commenter: Tom Bugas

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

For the past 27 years I have enjoyed the sport of windsurfing at Little Cape Horn, about 15 miles downstream of Longview. I would not feel safe in the river with coal pollutants being released.

Comment Number: MBTL-HIA-00096-24

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

17. ACTIVE TRANSPORTATION AND RECREATION: For lack of time, the authors of the DHIA failed to answer this question. This is a key omission because we know that recreational facilities at schools, soccer fields, hiking trails and biking lanes are areas of concern. Youth and active adults engage in intensive exercise that increases breathing rates and increases the total amount of pollution inhaled. Children are at risk even if they are not intensively exercising because they respire more frequently than adults and their body weight is lower. They concentrate significantly more toxins per body weight than adults. The boundary of Woodland Primary School is 125 feet from the railroad. (page 28) This puts children at greater risk for inhalation and ingestion of coal and DPM toxic pollutants.

Section 5 - Personal Health

Comment Number: MBTL-HIA-00002-3

Commenter: Darvel Lloyd

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

My twin brother and I were born in Longview in late December, 1942, as our forester father was cruising timber for Longview Fibre Co. at the time. Playing outside on the contaminated lawn during those war years, we have suffered mightily from various brain and lung disorders.

Comment Number: MBTL-HIA-00022-1

Commenter: Stephen Bachhuber

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I am a physician who lived in Longview and worked at St. John's Medical Center from 1980 to 1988. During my time in Longview I was struck by the high incidence of asthma in children and chronic lung disease in adults. I

attributed this to the high concentration of industry and the outgas of toxic chemicals by the paper and aluminum industries. I tolerated this for many years until I too became a victim, and developed respiratory problems and chronic sinus headaches. I moved from Longview in 1988 and my health improved.

Comment Number: MBTL-HIA-00039-065-2

Commenter: Linda Verdoorn

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I live within miles of the train tracks and YES, I am concerned about my health.

Comment Number: MBTL-HIA-00039-067-1

Commenter: Kalama Reuter

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I am also concerned because the rail traffic comes through the Columbia River Gorge where I live. Some of the health effects will impact me.

Comment Number: MBTL-HIA-00039-073-3

Commenter: Therese Livella

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Since moving to WA 4 years ago my allergies have gotten so much worse. I now have actual air way issues where it used to just be sneezing and itching. Added particulate matter will only increase this respiratory distress.

Comment Number: MBTL-HIA-00039-081-1

Commenter: Arlene Baker

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I have health problems directly related to growing up in Mississippi across the street from cotton fields sprayed with pesticides from crop planes, so I know what pollutants in the air can do, both to our health and to our air quality.

Comment Number: MBTL-HIA-00039-093-1

Commenter: Dave Westerland

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Last week driving south on I-5 in Kalama, I started sneezing (which I rarely do). There on the west side was

parked maybe 70 open coal cars. PARKED and giving off gas from the DIRTY COAL!

Comment Number: MBTL-HIA-00077-1

Commenter: Susan Burnett

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

I must register my profound unhappiness with the coal export project. What do all studies say about the impact of coal burning and dust? They say it can kill people!!!

I am an asthmatic. I didn't develop asthma as a child, but later, as an adult. It is clear that particulates are the cause.. Air pollution from autos, particularly diesel, and coal burning has given me and others in my family, as well as people all over the world lung disease.

Those supporting the production and use of coal are putting nails in our coffins. This is no hypothetical. It is real. I urge you to forbid the MTBL Project. This is an industry of the past.

Comment Number: MBTL-HIA-00148-1

Commenter: Barbara Cain

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

As an asthmatic, I am horrified!!! I can't imagine you allowing this to happen to all of the folks with asthma, COPD, etc. that live near the proposed terminal

Comment Number: MBTL-HIA-00206-1

Commenter: Mary Kay Mattson

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I have a nodule in my lung as well as chronic radiation sickness/syndrome diagnosed by multiple facilities including the Cleveland Clinic. Please find a safe way to proceed. If you do not babies. Will die.

Section 5.1 - Health effects of noise and vibration

Comment Number: MBTL-HIA-00018-6

Commenter: Peter Kerr

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

*Higher noise exposure in Cowlitz County

Comment Number: MBTL-HIA-00039-025-1

Commenter: Mary Shaughnessy

Commenter Type: General Public

Classification: Non-technical

Other Sections: 4 2.1

Comment Excerpt Text:

Cancer rates will increase in populations along the coal line, coal dust and diesel particulate matter exposure will jeopardize the health of communities along the rail line, and the noise they will experience will further torment them.

Comment Number: MBTL-HIA-00039-112-4

Commenter: Lisa Waldvogel

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

Higher noise exposure in low income areas in Cowlitz County. Noise is associated with higher rates of high blood

Comment Number: MBTL-HIA-00039-5

Commenter: Jasmine Zimmer-Stucky

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

- Higher noise exposure in low income areas in Cowlitz County. Noise is associated with higher rates of high blood pressure, heart attack and heart disease. Cowlitz County and the neighborhoods that would be most impacted by increased noise already experience higher than average rates of these diseases and that increased noise will contribute to further increase in these rates.(p. 23)

Comment Number: MBTL-HIA-00050-1

Commenter: Barbara Gottlieb

Commenter Type: General Public

Classification: Non-technical

Other Sections: 4 2 5.5

Comment Excerpt Text:

Having visited Oregon's Columbia River as a tourist with my family, I would like to share my concerns about this proposal. It would be extremely harmful to the health of everyone living in the river valley to have this massive coal export terminal built. The terminal as well as the related train traffic would (as your HIA indicates) pose real threats of cancer, air pollution, noise pollution and contamination of food sources.

Comment Number: MBTL-HIA-00063-5

Commenter: Michael Gochfeld

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Noise also increase risk of high blood pressure and heart attacks.

Comment Number: MBTL-HIA-00087-019-2

Commenter: Megan Richie

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I am concerned about the increase in train traffic especially during late night hours. My and my family's sleep and well-being is important to me. I have been awoken multiple times in the night from train traffic and it has caused an increase in my anxiety and depression.

Comment Number: MBTL-HIA-00092-4

Commenter: Laura Ackerman

Commenter Type: General Public

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

Third, while I understand that not all studies can be put into an HIA I would like to see a more comprehensive list. I would also like to be able in the studies cited, have an on line link for reading some of them myself.

As an example, with the noise studies you used, I found some more studies on line, that help validate what is in the HIA. Noise is becoming an increasingly alarming human health problem. And just as an additional fact, human produced noise is also harming many non-human species. Many studies exist on this.

I checked on some noise studies I know about and found that I had two that were the same as you listed, but I also found more (and there are more than this) and in case you are curious here they are:

Airport Noise Can Seriously Affect The Health And Psychological ...[link:
<https://www.sciencedaily.com/releases/1998/03/980306043455.htm>]

Mar 6, 1998 ... Other studies have been cross sectional, comparing people exposed to noise to well-matched controls who were not subjected to noise. Evans, an environmental psychologist and an international expert on environmental stress (such as noise, crowding and air pollution) and his German and Swedish

Traffic noise is dangerous for your health: Solutions exist for dense ... [link:
<https://www.sciencedaily.com/releases/2014/07/140701085328.htm>]

Jul 1, 2014 ... Traffic noise is the second biggest environmental problem in the EU, according to WHO. After air pollution, noise is affecting health the most. But legislation regarding noise pollution is insufficient. A new report shows how negative health effects of noise can be reduced. Several means are easiest to apply in

Transportation noise increases risk for cardiovascular diseases and ... [link:
<https://www.sciencedaily.com/releases/2017/06/170621103143.htm>]

Jun 21, 2017 ... Noise also favours Diabetes. In addition to cardiovascular diseases, transportation noise also increases the risk of developing diabetes. This is shown by an examination of 2,631 people exposed to different degrees of noise pollution. "Two mechanisms play a role," explains Nicole Probst-Hensch, Head of

Substantial road traffic noise in urban areas contributes to sleep ... [link:
<https://www.sciencedaily.com/releases/2012/09/120911091353.htm>]

Sep 11, 2012 ... The World Health Organization recently recognized environmental noise as harmful pollution, with adverse psychosocial and physiological effects on public health. A new study of noise pollution in Fulton County, Georgia, suggests that many residents are exposed to high noise levels that put them at risk of

Noisy Roads Increase Risk Of High Blood Pressure -- ScienceDaily [link:
<https://www.sciencedaily.com/releases/2009/09/090909203148.htm>]

Sep 11, 2009 ... Traffic noise raises blood pressure. Researchers have found that people exposed to high levels of noise from nearby roads are more likely to report suffering from hypertension.

Effect of loud noises on brain revealed in study -- ScienceDaily [link:
<https://www.sciencedaily.com/releases/2014/07/140731102524.htm>]

Jul 31, 2014 ... Prolonged exposure to loud noise alters how the brain processes speech, potentially increasing the difficulty in distinguishing speech sounds, according to neuroscientists. Exposure to intensely loud sounds leads to permanent damage of the hair cells, which act as sound receivers in the ear.

Long term exposure to aircraft noise linked to high blood pressure ... [link:
<https://www.sciencedaily.com/releases/2017/06/170613185148.htm>]

Jun 13, 2017 ... They point out that they were unable to look at specific causes of death among the 78 people who died between 2004-6 and 2013. The numbers studied were also relatively small, and it wasn't possible to account for the potential effects of air pollution. Nevertheless, a growing body of evidence links noise

Too much 'noise' can affect brain development -- ScienceDaily [link:
<https://www.sciencedaily.com/releases/2016/04/160415143942.htm>]

Apr 15, 2016 ... Using cutting-edge imaging technology, biologists have determined that uncontrolled fluctuations (known as "noise") in the concentration of the vitamin A derivative Retinoic acid (RA) can lead to disruptions in brain organization during development.

Male infertility could be linked to noisy bedrooms: Could sleeping ... [link:
<https://www.sciencedaily.com/releases/2017/06/170628095837.htm>]

Jun 28, 2017 ... Long-term exposure to a noisy environment, particularly at night, is linked to infertility in men, according to a study in Environmental Pollution. The researchers found that exposure above the WHO night noise level (55 dB -- equivalent to the noise of a suburban street) is linked to a significant increase in

Life in the city: Living near a forest keeps your amygdala healthier... [link:
<https://www.sciencedaily.com/releases/2017/10/171018113515.htm>]

Oct 18, 2017 ... Noise, pollution, and many people in a confined space: Life in a city can cause chronic stress. City dwellers are at a higher risk of psychiatric illnesses such as depression, anxiety disorders, and schizophrenia than country dwellers. Comparisons show higher activity levels in city dwellers' than in country

Brain waves control the impact of noise on sleep -- ScienceDaily [link:
<https://www.sciencedaily.com/releases/2011/09/110906121014.htm>]

Sep 6, 2011 ... During sleep, our perception of the environment decreases. However the extent to which the human brain responds to surrounding noises during sleep remains unclear. Researchers have now used brain imaging to study responses to sounds during sleep. They show that brain activity in the face of noise is

City air pollution cancels positive health effects of exercise in over 60's [link:
<https://www.sciencedaily.com/releases/2017/12/171206091951.htm>]

Dec 6, 2017 ... As expected, noise and pollution levels were significantly higher on Oxford Street compared to Hyde Park, including increased measures of black carbon, nitrogen dioxide and fine particulate matter. Analysis revealed that all participants benefitted from a stroll in the park, with lung capacity improving within

Traffic-related air pollution substantial public health concern ... [link:
<https://www.sciencedaily.com/releases/2013/10/131021131002.htm>]

Oct 21, 2013 ... Traffic-related air pollution is increasingly shown to have negative health effects according to a growing body of epidemiologic evidence and is a substantial public health concern in Canada.

Noise disrupts the tactile skills of premature babies -- ScienceDaily [link:
<https://www.sciencedaily.com/releases/2016/03/160322082048.htm>]

Mar 22, 2016 ... Premature birth is a harsh change of environment for a baby. Until birth, the baby is confined to the mother's womb, surrounded by soft lighting and filtered noise. When infants are born, they are attacked by several visual, sound, and tactile stimulations. Researchers have examined the consequences of ...

Aircraft noise linked to heart disease, study suggests -- ScienceDaily [link:
<https://www.sciencedaily.com/releases/2013/10/131009100602.htm>]

Oct 9, 2013 ... Factors that could have affected the results, such as age, sex, ethnicity, social deprivation, smoking, air pollution, and road traffic noise were also taken into account. Accounting for the prevalence of people of South Asian ethnicity reduced the observed risks for hospital admissions for coronary heart .

Another concern I want to mention is that some humans like those with autism and PTSD are very sensitive to noise. These sensitivities need to be further explored in the HIA and then let citizens know how some of the negative impacts can be mitigated. Here is just one study on noise sensitivity:

<https://www.sciencedaily.com/releases/2017/12/171213104943.htm> [link:
<https://www.sciencedaily.com/releases/2017/12/171213104943.htm>] Noise sensitivity visible in brain structures.

As a mother of an autistic child, noise is a problem: Youth on the autism spectrum overly sensitive to sensory stimuli ...

Jun 10, 2015 ... Using functional magnetic resonance imaging, a team of UCLA researchers has shown for the first time that children with autism spectrum disorder (ASD) who are overly sensitive to sensory stimuli have brains that react differently than those with the disorder who don't respond so severely to noises, visual ...

Enhanced motion perception in autism may point to an underlying ... [link:
<https://www.sciencedaily.com/releases/2015/06/150610131634.htm>]

May 8, 2013 ... Such heightened sensory perception in autism may help explain why some people with the disorder are painfully sensitive to noise and bright lights. It also may be linked to some of the complex social and behavioral deficits associated with autism, says Dujé Tadin, one of the lead authors on the study and ...

Comment Number: MBTL-HIA-00092-5

Commenter: Laura Ackerman

Commenter Type: General Public

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

And finally on noise, please do more research specifically on train whistle noise. As an activist I hear a lot about train whistles and how annoying they are for humans who live near them. A few years ago I was sitting in a coffee

shop in downtown Cheney, WA with a friend. It was a summer day and the door to the shop was open. A train came by (Cheney and Spokane will get all the coal trains for this proposal as well as all types of cargo, manifest and unit trains) and the whistle was so loud I could not hear my friend talk who was literally a foot away. Train whistles are a part of the safety of at grade crossings, but they are also difficult on the ears. Train whistles are a chronic complaint (I have researched this) across the US and Canada and you need to research that, link articles about that in the HIA and suggest some possible solutions.

Cumulative effects of rail traffic and noise need to be taken into account when it comes to communities who may see more than one proposal or are the rail communities for more than one proposal on top of the already existing traffic. A city like Spokane is a perfect example of that.

Comment Number: MBTL-HIA-00096-13

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

6. RAIL CONGESTION AND NOISE POLLUTION: There is higher noise exposure in low- income areas in Cowlitz County. Noise is associated with higher rates of high blood pressure, heart attack and heart disease. Cowlitz County and the neighborhoods that would be most impacted by increased noise already experience higher than average rates of these diseases and that increased noise will contribute to further increase in these rates. (page 23)

The DHIA does not describe the full range of negative health impacts of noise and traffic congestion generated by projected increase in rail traffic, including an increase in the number of train accidents as described in the FEIS.

A single train could delay traffic by 9 minutes at at-grade crossings. There will be 16 train trips each day at full operation. This could decrease accessibility of public services and increase wait times for emergency vehicles. (page 21) The DHIA does not describe the health implications of delayed response times. These include death and/or disability for cardiac and stroke patients, accident patients, and all patients threatened by emergent life and death situations.

Comment Number: MBTL-HIA-00096-30

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

6. RAIL CONGESTION AND NOISE POLLUTION

Part D (Personal Health), Section I considers these questions:

Question 9. What will be the health effects on the community in regards to emergency response times, commute times, and traffic congestion?

Question 10. What will be the effect be on recreational and active transportation activities in Cowlitz County, such as walking, biking, and taking the bus?

Question 11. What will be the health effects of noise and vibration?

The FEIS concluded that increased rail traffic would cause a significant increase in area traffic congestion and delays in emergency response time. [4, Section 5.3.8] The FEIS further notes that if all suggested improvements to at-grade crossings are made, the problem of traffic congestion could be adequately mitigated. However, the County has not made these improvements a condition for project approval. [3, page 20] The HIA fails to address and resolve this issue.

As noted earlier, effects on recreation and transportation activities in the area were not investigated. Recreational opportunities and active transportation are important to creation of a healthy and economically thriving community. There is considerable evidence in public health and community planning literature that improved access to walking and bicycling to and from work and school improves the health of the community. If diesel emissions and coal dust foul the air and train noise is annoying or disturbing, it is less likely that adults and children will play outside or engage in walking, biking and recreational activities.

The DHIA described many of the adverse health impacts of noise exposure, but emphasized these health impacts occurred after many years of exposure even while stating that noise can trigger the body's stress response, cause sleep disturbance and increase blood pressure. Work and school performance can be adversely impacted as well. These responses to noise are short-term impacts and can have rapid adverse health impacts especially in children, the elderly, persons already under stress, and persons who are ill. Children develop better concentration skills in a quiet environment, children who are exposed to noise pollution while learning are more likely to experience reading delays, and children who spend time in noisier areas have higher resting blood pressure and higher stress levels.

The DHIA notes that noise is measured in different ways, but did not consider that "averaging noise levels fails to take into account the effect of individual events, with locomotive horns and train pass-bys being perfect examples. ...people do not experience noise as averages - they experience noise as events." For further discussion of this point and its relevance to estimating adverse health impacts of noise exposure, see the comments of Dr. Alice Suter on the NEPA DEIS submitted on November 28, 2016. [Appendix IV]

The DHIA acknowledges that "noise health risks exist for anyone in the county or along the rail line elsewhere beyond the corridor studied in the FEIS." The DHIA focuses on heart disease and found agreement with scientific studies that for each 10 dB increase in noise there is a 6% to 8% increase in population risk for adverse heart health outcomes. The DHIA found that risk for high blood pressure, heart attack and heart disease increases in a meaningful way between 52 decibels and 75 decibels, and also referenced the World Health Organization's 50 decibel nighttime threshold for high blood pressure and heart attack impacts.

The draft HIA includes a map of contours of noise estimates from the FEIS that included data from noise monitoring stations and included the 55 Ldn (average day night sound level) rail noise contour that was not included in the FEIS. But the DHIA did not specifically connect the data on increased health risks with increases in noise levels within this rail noise contour and did not point out that the 55 Ldn contour includes a large residential area adjacent to the proposed MBT site. This is a serious omission. Nevertheless, looking at 5 years of mortality data, the DHIA found that the Cowlitz County death rate from heart disease is 7% higher than the state, and concluded that Cowlitz County and the neighborhoods that would be most impacted by increased noise are already experiencing higher than average rates of disease and increased noise will increase those rates further.

Comment Number: MBTL-HIA-00096-39

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 2.1 4 2.4

Comment Excerpt Text:

Conclusions

Oregon and Washington PSR conclusions are based on the DHIA, the FEIS, the Decision of the Shorelines Hearing Officer, the Assessment of Health and Safety Implications of Coal Transport through Oakland, hundreds of peer-reviewed journal articles and include:

- Coal pollutants affect all major body organ systems and contribute to 4 of the 5 leading causes of death in America, including heart disease, cancer, stroke, and chronic respiratory disease.
- Transportation of coal by rail through Longview and the transfer of coal through the proposed MBT export terminal will increase exposures to air pollutants with known adverse health effects including deaths.
- There are no proven methods to eliminate or reduce the emission of these pollutants to a safe level.
- There are inherent hazards in transporting and handling coal, including the risk of catastrophic explosion.
- The combustion of coal exported from Longview will contribute to global climate change, resulting in additional adverse health risks to Cowlitz County residents and others.
- Impacts of coal transport and handling, including noise impacts, will be greatest along the railroad and near the terminal in neighborhoods already burdened by significant health inequities.

Comment Number: MBTL-HIA-00097-11

Commenter: C. Persons

Commenter Type: Organization

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

- The draft HIA concludes that elevated noise and vibration from 16 additional trains per day will negatively affect the health of residents living close to the coal train tracks, especially those near crossings. The DEIS stated the Millennium would create and fund a “quiet zone” in Longview, but there was no legal way to enforce this. However, this is an important health effect, and if local and state health agencies do not ask for this mitigation, it will not happen. The HIA should recommend that quiet zones be created for all crossings for residents in Cowlitz County, Washington State, and our region if the increased noise from an additional unit coal trains per day will create adverse health effects.

Comment Number: MBTL-HIA-00097-14

Commenter: C. Persons

Commenter Type: Organization

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

- In addition, the monitoring for noise proposed in the FEIS is for only two fence-line residences with no monitoring near coal route rail tracks. The final HIA should recommend adding noise monitors along tracks in the Highlands, Lexington and St. Helens’ neighborhoods, at Woodland Primary School, and at other points along the coal rail routes where residents are within 150 feet of the tracks. This monitoring will be necessary to ensure that

the quiet zones created at railroad crossings are effective.

- If the final HIA makes any recommendations for mitigating the health effects of the Millennium project, it should also include recommendations for how best to monitor the effectiveness of those modifications.

Comment Number: MBTL-HIA-00102-6

Commenter: Patricia Bode

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

- Low-income areas in Cowlitz County will be exposed to high levels of noise. Noise is associated with higher rates of high blood pressure, heart attack and heart disease.

Comment Number: MBTL-HIA-00103-4

Commenter: Kevin Baier

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

*Higher noise exposure in low income areas in Cowlitz County. Noise is associated with higher rates of high blood pressure, heart attack and heart disease. Cowlitz County and the neighborhoods that would be most impacted by increased noise already experience higher than average rates of these diseases and that increased noise will contribute to further increase in these rates (p. 23).

Comment Number: MBTL-HIA-00108-7

Commenter: Donald Lightfoot

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

*Higher noise levels will impact low income areas in Cowlitz County.

Comment Number: MBTL-HIA-00123-4

Commenter: Jane Middlesworth

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The draft shows Cowlitz County and the neighborhoods that would be most impacted by increased noise already experience higher than average rates of these diseases and that increased noise will contribute to further increase in these rates)

Comment Number: MBTL-HIA-00124-4

Commenter: Jane Middlesworth

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The draft shows Cowlitz County and the neighborhoods that would be most impacted by increased noise already

experience higher than average rates of these diseases and that increased noise will contribute to further increase in these rates)

Comment Number: MBTL-HIA-00153-2

Commenter: Mary Headrick

Commenter Type: General Public

Classification: Technical

Other Sections: 4 2 5.5

Comment Excerpt Text:

The HIA shows that Millennium would pose real threats of cancer, air pollution, noise pollution and contamination of food sources:

Comment Number: MBTL-HIA-00156-1

Commenter: Gerard Redpath

Commenter Type: General Public

Classification: Technical

Other Sections: 2 4 5.5

Comment Excerpt Text:

The HIA shows that it would pose real threats of cancer, air pollution, noise pollution and contamination of food sources

Comment Number: MBTL-HIA-00160-8

Commenter: Susan Haywood

Commenter Type: General Public

Classification: Non-technical

Other Sections: 4 2 5.5

Comment Excerpt Text:

The HIA shows that it would pose real threats of cancer, heart and lung disease, neurological impairment, air pollution, noise pollution and contamination of food sources:

Comment Number: MBTL-HIA-00177-1

Commenter: Judy Kawamoto

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

As someone who lives in a community developed near a railroad track, I can testify to the negative aspects of living close to the noise, the pollution and the ongoing traffic from something as intrusive as one train honking loudly as it rolls by. I can't quite imagine dealing with 16 trains going by every single day!! This is indeed a bad idea posed by people quite divorced from the reality of the experience of living near a railroad track.

Comment Number: MBTL-HIA-00178-2

Commenter: Cynthia Bower

Commenter Type: General Public

Classification: Technical

Other Sections: 4 2 5.5

Comment Excerpt Text:

The HIA concludes that it would pose significant threats of cancer, air pollution, noise pollution and contamination of food sources.

Comment Number: MBTL-HIA-00199-2

Commenter: Bruce Hlodnicki

Commenter Type: General Public

Classification: Technical

Other Sections: 4 2 5.5

Comment Excerpt Text:

The HIA shows that it would increase the threats of cancer, air pollution, noise pollution and contamination of food and water sources:

Comment Number: MBTL-HIA-00205-2

Commenter: Rosemarie Carbino

Commenter Type: General Public

Classification: Non-technical

Other Sections: 4 2 5.5

Comment Excerpt Text:

The HIA already shows that it would pose real threats of cancer, air pollution, noise pollution and contamination of food sources:

Comment Number: MBTL-HIA-00218-4

Commenter: Elizabeth Barger

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Low-income areas in Cowlitz County will be exposed to high levels of noise.

Comment Number: MBTL-HIA-00238-1

Commenter: Virjeana Brown

Commenter Type: General Public

Classification: Non-technical

Other Sections: 2.2

Comment Excerpt Text:

For the past two days, I have had a train running, parked in front of my house. The smell of diesel makes me sick to my stomach and the noise keeps me from getting a good nights sleep. Please take this HIA very seriously for my health and the health of my child as well as all those children and families that live along the rail line.

Section 5.2 - Contamination of fish in food chain

Comment Number: MBTL-HIA-00039-003-7

Commenter: Richard Creswell

Commenter Type: General Public

Classification: Non-technical

Other Sections: 2 4.3 4.1

Comment Excerpt Text:

Air pollution, Mercury/water/ fish / playground pollution, Global climate change upon us now

Comment Number: MBTL-HIA-00039-085-3
Commenter: Beth Hartwell
Commenter Type: General Public
Classification: Non-technical

Comment Excerpt Text:

So many negative impacts from traffic, river pollution of fish and shellfish,

Comment Number: MBTL-HIA-00039-8
Commenter: Jasmine Zimmer-Stucky
Commenter Type: Organization
Classification: Technical

Comment Excerpt Text:

- Tribes have the right to fish and harvest seafood. Some people eating shellfish could be exposed to potentially toxic polycyclic aromatic hydrocarbons due to this project (p. 25)

Comment Number: MBTL-HIA-00074-3
Commenter: Janice Doherty
Commenter Type: General Public
Classification: Non-technical
Other Sections: 4 2.1 4.2

Comment Excerpt Text:

The Hanford area was designated as a "national sacrifice zone" in matters related to the development of nuclear power. Spokane County is just one area of eastern WA impacted with higher cancer rates related to fallout from "The Green Run" and other radiation experiments and mistakes at Hanford. Cowlitz County should not be designated the current "sacrifice area" for supporting the coal industry as it gradually becomes obsolete. Examples: negative health effects from inhaling coal dust and diesel; increased wait times for emergency response personnel waiting for train crossings; further deterioration of fish and seafood harvests, particularly as related to local tribes who have already suffered significant harm to their fishing and cultural sites

Comment Number: MBTL-HIA-00094-4
Commenter: Marilee Dea
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

Environmentally closer to home, Millennium's coal terminal will affect the fish in the Columbia River and the shore line with toxic metals contamination and the air in Longview which will affect its inhabitants with more cancer and asthma.

Comment Number: MBTL-HIA-00096-14
Commenter: Regna Merritt
Commenter Type: Organization
Classification: Technical
Other Sections: 8 5.5

Comment Excerpt Text:

7. FOOD CONTAMINATION: The DHIA concludes that the project represents no risk to food safety, but this conclusion is based on underestimates of coal toxic pollutants including mercury, lead, arsenic, cadmium and DPM emissions. The DHIA ignores the findings of the "Assessment of the Health and Safety Implications of Coal Transport through Oakland" which states, "Coal dust typically contains toxics such as mercury, lead, arsenic,

cadmium, and crystalline silica. These substances are of high health concern if inhaled or ingested and are known to cause cancer, fetal defects and neurological damage, even at very low doses. There are no known safe levels of exposure to these toxics.” (Appendix V)

Tribes have the right to fish and harvest seafood. Tribal members and others eating shellfish could be exposed to potentially toxic and carcinogenic polycyclic aromatic hydrocarbons due to this project. (page 25)

Comment Number: MBTL-HIA-00096-31

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

7. FOOD CONTAMINATION

Part D (Personal Health), Section I considers these questions:

Question 12. Will fish in the Columbia River be contaminated and if so, what will be the health impacts on people who eat those fish?

Question 15. Will there be any health effects on residents by consuming food grown on local farmland or in residential gardens?

The DHIA concludes that some accumulation of PAH in shellfish is possible, but the impact of ingestion is minimal because the harvesting of shellfish in the Columbia River is prohibited. This conclusion understates risk to tribal communities.

The combined and cumulative harm that could come to fisheries from coal transport and export along Northwest waterways such as the Columbia River must be more fully considered. We object to any project that causes significant impacts to tribal fishing and treaty rights.

The following words are taken from a prepared statement of the Yakama Nation given November 18, 2013, at an Oregon Physicians for Social Responsibility press conference: “First and foremost, given the direct and indirect impacts that the coal export proposals would have on the Yakama People and our Treaty-reserved rights and resources, Yakama Nation is fully opposed to all coal export proposals, including the Millennium Bulk Terminal project at the Port of Longview. As such, Yakama Nation continues to ask all permitting agencies, including the U.S. Army Corps of Engineers and other state and local authorities to deny any and all permits related to these proposals. To be clear, Yakama Nation will not negotiate nor agree to so-called mitigation for any violations of its Treaty- reserved rights.”

For further detail see page 40, Oregon and Washington Physicians for Social Responsibility Comments on Draft Environmental Impact Statement for Millennium Bulk Terminals. [Appendix II]

The DHIA further concludes that coal dust contamination, along with its associated toxins and heavy metals, will have minimal effects on local home and commercial food crops. This conclusion is based on modeling of coal dust emissions in the FEIS [4] that significantly underestimates emissions based on actual measured emissions at coal terminals in other communities. The conclusion is therefore not warranted. Furthermore, the potential for coal dust including contaminants for which there is no known safe level of exposure (mercury, arsenic, lead, cadmium) must be more fully considered before discounting impacts on food grown on farms and in home

gardens. As previously noted, the “Assessment of Health and Safety Implications of Coal Transport through Oakland” states “these substances are of high health concern if inhaled or ingested and are known to cause cancer, fetal defects and neurological damage, even at very low doses. There are no known safe levels of exposure to these toxics.” [Appendix V]

For further detail see pages 20 - 27, Oregon and Washington Physicians for Social Responsibility Comments on Draft Environmental Impact Statement for Millennium Bulk Terminals. [Appendix II]

Comment Number: MBTL-HIA-00102-9

Commenter: Patricia Bode

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

- Tribal members eating shellfish could be exposed to toxic polycyclic aromatic hydrocarbons due to this project.

Comment Number: MBTL-HIA-00103-7

Commenter: Kevin Baier

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

*Tribes have the right to fish and harvest seafood. Some people eating shellfish could be exposed to potentially toxic polycyclic aromatic hydrocarbons due to this project (p. 25).

Comment Number: MBTL-HIA-00104-4

Commenter: rejean idzerda

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

*Tribes have the right to fish and harvest seafood. Some people eating shellfish could be exposed to potentially toxic polycyclic aromatic hydrocarbons due to this project (p. 25)

Comment Number: MBTL-HIA-00123-7

Commenter: Jane Middlesworth

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The draft shows that Some people eating shellfish could be exposed to toxic polycyclic aromatic hydrocarbons from this project

Comment Number: MBTL-HIA-00124-8

Commenter: Jane Middlesworth

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The draft shows that Some people eating shellfish could be exposed to toxic polycyclic aromatic hydrocarbons from this project

Comment Number: MBTL-HIA-00178-7

Commenter: Cynthia Bower

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Tribal members who consume shellfish gathered from proximal waters could be exposed to toxic polycyclic aromatic hydrocarbons due to this project.

Comment Number: MBTL-HIA-00218-7

Commenter: Elizabeth Barger

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Everyone eating shellfish could be exposed to toxic polycyclic aromatic hydrocarbons due to this project.

Comment Number: MBTL-HIA-00249-5

Commenter: Jennifer Nitz

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Some people eating shellfish would be exposed to potentially toxic polycyclic aromatic hydrocarbons due to this project (p. 25).

Section 5.3 - Health impacts of topper agents (surfactant)

Comment Number: MBTL-HIA-00039-073-2

Commenter: Therese Livella

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

and the fact that the surfactants used on the coal have not been fully studied because they are proprietary. That is just incredibly wrong.

Comment Number: MBTL-HIA-00039-9

Commenter: Jasmine Zimmer-Stucky

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

- Review of surfactants (chemicals added to the top of open train cars in an attempt to limit dust) was limited because some ingredients are proprietary or were not sufficiently identified to be reviewed independently for potential health impacts. (p. 26)

Comment Number: MBTL-HIA-00095-5

Commenter: Chris Turner

Commenter Type: General Public

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

SURFACTANTS/BNSF

BNSF did not give the HIA steering committee the complete list of surfactants that are approved by BNSF. So, testing is a waste of time.

In addition to that, BNSF allows their customers to use whatever surfactant that they choose, as long as it reduced the coal dust by 85%. None of the surfactants that I have seen say anything about being Biodegradable.

The fact is that BNSF has not been forthcoming to anyone about the ingredients of their surfactants. This isn't just about the proprietary nature of the ingredients. They don't want the ingredients known because of their toxic nature/interaction in the environment.

It is almost impossible to gauge the exact effects of coal dust/particles without knowing what the surfactants are that are being constantly sprayed onto the coal. This includes the effect of coal dust on water quality/contamination as well as on human health. So, more than likely, the results indicated in the HIA would be much more hazardous/deadly to our health.

Since, Millennium asserts no responsibility/control outside of their facility, the railroads are not required to use surfactants. If Millennium chooses to use Union Pacific, instead of BNSF to ship their coal, UP does not have a surfactant policy.

Comment Number: MBTL-HIA-00096-16

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

9. HEALTH EFFECTS OF TOPPER AGENTS (SURFACTANTS):

The DHIA concludes that these risks are minimal while acknowledging that the science behind this conclusion is limited. Review was limited because some ingredients are proprietary or were not sufficiently identified to be reviewed independently for potential health impacts. (page 26) Therefore the potential risk to the local population and rail communities from the mines to the terminal is unknown.

Comment Number: MBTL-HIA-00096-33

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

9. HEALTH EFFECTS OF TOPPER AGENTS (SURFACTANTS)

Part D (Personal Health), Section I (Health Evaluation) considers the following question:

Question 13. What are the health impacts of topper agents on workers or residents?

The section notes that “to the extent that topper agents reduce community exposure to coal dust, the use of these toppers will be beneficial for public health.” [1, page 26]

However, even with these agents applied, coal dust is lost in transit at high rates. [7] In addition, it is unclear whether these topper agents will be used on the coal pile at the MBT site to keep the coal dust from blowing in the wind. Even if it is not re-applied at the terminal, topper will be in the coal dust, some of which will blow in and around the project site and adjacent neighborhoods.

Investigation did not reveal any potential for significant harm from toppers or surfactants, but the section concludes that “The review performed by DOH was limited. Some ingredients were proprietary or were otherwise not sufficiently identified to be reviewed independently for potential health impacts. In addition, MSDSs and toxicological databases show very little testing data for some of these ingredients.” [1, page 26]

The conclusion that these agents present no potential harm, given the weakness of the evidence, is not warranted. The potential toxicity must be elucidated, regardless of proprietary constituents. The Precautionary Principle should be invoked in the event that no further information on constituents is available.

Comment Number: MBTL-HIA-00103-8

Commenter: Kevin Baier

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

*Review of surfactants (chemicals added to the top of open train cars in an attempt to limit dust) was limited because some ingredients are proprietary or were not sufficiently identified to be reviewed independently for potential health impacts (p. 26).

Comment Number: MBTL-HIA-00104-5

Commenter: rejean idzerda

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

*Review of surfactants (chemicals added to the top of open train cars in an attempt to limit dust) was limited because some ingredients are proprietary or were not sufficiently identified to be reviewed independently for potential health impacts. (p. 26)

Comment Number: MBTL-HIA-00123-8

Commenter: Jane Middlesworth

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The draft shows review of surfactants was limited because some ingredients are proprietary or were not sufficiently identified to be reviewed independently for potential health impacts.

Comment Number: MBTL-HIA-00124-9

Commenter: Jane Middlesworth

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The draft shows review of surfactants was limited because some ingredients are proprietary or were not sufficiently identified to be reviewed independently for potential health impacts.

Section 5.4 - Water quality

Comment Number: MBTL-HIA-00008-1

Commenter: Jim Steitz

Commenter Type: General Public

Classification: Technical

Other Sections: 2.3

Comment Excerpt Text:

***Even the smallest scope of environmental analysis, the terminal itself and the proximate impact to the local natural and human environment, shows the MBTL proposal to be grossly unacceptable. The coal shipping traffic through the Columbia River, the local air and water pollution, congestion, and destruction of the community ambiance, would transform the local area into a purgatory of industrial misery.

Comment Number: MBTL-HIA-00008-2

Commenter: Jim Steitz

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The river ecosystem, whose marine mammals and fisheries are already under severe stress from hydroelectric dams, fishing pressure, and water quality degradation, would face another maelstrom of industrial pollution, noise, and physical displacement.

Comment Number: MBTL-HIA-00017-1

Commenter: Kelly McConnell

Commenter Type: General Public

Classification: Technical

Other Sections: 2

Comment Excerpt Text:

Above ALL, we want CLEAN air and water. Coal exports are the antithesis of clean air and water.

Comment Number: MBTL-HIA-00039-004-1

Commenter: A Bonvouloir

Commenter Type: General Public

Classification: Non-technical

Other Sections: 2 4

Comment Excerpt Text:

Air, water, land, and indigenous people.

Comment Number: MBTL-HIA-00039-052-1

Commenter: Wm Schultz

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

coal produces arsenic waste.that ends in in groundwater.

Comment Number: MBTL-HIA-00039-066-1

Commenter: Tom Bugas

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I am also concerned about water quality in the Columbia River.

Comment Number: MBTL-HIA-00039-071-1

Commenter: Joyce Sherman

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I am concerned for all the reasons listed above. On top of that, think of all the efforts and money spent by the States of Washington and Oregon over the years to maintain the salmon runs and relative purity of the Columbia River. There will never be a time when it is appropriate to defile the river for the enrichment of a few greedy men.

Comment Number: MBTL-HIA-00039-151-1

Commenter: John Wood

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

While it is too bad that Charlie Tibbets of the eponymous law firm in Eugene, Oregon threw the 2016 coal lawsuit by settling for his fees and a small tip to the plaintiffs, the fact remains that every coal car pulled by every coal train traversing the country every day spills coal into every waterway it crosses, endangering every one of us through pollution and the effects on nature upon which we depend for our lives.

Comment Number: MBTL-HIA-00072-1

Commenter: Sabra Hull

Commenter Type: General Public

Classification: Non-technical

Other Sections: 4 2

Comment Excerpt Text:

The draft HIA prepared by Cowlitz County and the Washington Department of Health presents some alarming

analysis of potential air and water quality issues, and consequent potential health impacts of this proposal. Both human and aquatic communities would be affected, and I see no remedy for these impacts.

Comment Number: MBTL-HIA-00095-3

Commenter: Chris Turner

Commenter Type: General Public

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

QUESTION 12. WILL FISH IN THE COLUMBIA RIVER BE CONTAMINATED, AND IF SO, WHAT WILL BE THE HEALTH IMPACTS ON PEOPLE WHO EAT THE FISH?

WATER QUALITY IN THE COLUMBIA RIVER AND WASHINGTON WATERWAYS

In the DOE 401 Water Quality Permit Denial, Millennium has not provided DOE with sufficient data/documents to evaluate the degradation of water quality from the proposed facility.

SIERRA CLUB VS BNSF- The judge recently determined that coal dust deposited into the Washington waterways is a violation of the "Clean Water Act".

According to ACE in the EIS, coal dust during normal operations will be deposited into the Columbia River from the coal terminal. The coal dust will increase the suspended solids/turbidity of the water. The coal will migrate downstream several miles. Coal. Dust because of its properties, will block the photosynthesis of the plants in the river, reducing the food availability to aquatic life in the estuary. The coal dust will suffocate/strangle the fish. It doesn't take much research to discover that coal dust/particles are composed of arsenic, lead and mercury, among other toxins. I'm not a fish biologist, but I do know that Mercury is a concern for humans that consume fish.

Coal dust/particle spills at the terminal or due to collisions or groundings from vessels has not been addressed in the HIA, in relation to the degradation of water quality in the Columbia River.

Turbidity is a good measure of the quality of the water.

Original dredging and maintenance dredging, pile driving, causing suspended solids/turbidity in the water column have not been included in the water quality evaluation. Maintenance dredging done every couple of years would be a continuing disturbance of aquatic life and water quality in the Columbia River, as well as continued deposition of coal dust from the terminal.

Millennium proposes to remove a significant number of creosote-coatings pilling (containing 18 different chemicals) possibly causing long-term toxic suspended solids/turbidity in the water column in the Columbia River.

Among the issues that Millennium has not addressed with DOE or will cause water quality issues are:

Stormwater runoff-no permission to use stormwater to sprinkle on stockpiles of the coal.

Water rights may not be accessible to Millennium.

No permission to use Mixing Zones in the Columbia River for wastewater/runoff.

Composition of the wastewater that will be discharged into the Columbia River is unknown.

The protection that is required to protect the endangered and threatened fish in the Columbia River and the ability to consume the fish in the river, demands that the water quality and discharges from the Millennium facility be evaluated completely.

But, Millennium has chosen not to make available the data/documents to DOE. The evidence available at this time, without question, is that the coal terminal will degrade the water quality of the Columbia River beyond what is acceptable, and harm the aquatic life in the river.

Comment Number: MBTL-HIA-00096-15

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

8. WATER QUALITY: The DHIA considers effects of water quality in relationship to PAH contamination of edible fish, but concludes that potential negative impacts are tiny. The DHIA additionally concludes that drinking water in the area will be safe from contamination. Again, this conclusion is based on underestimates of coal emissions and minimizes studies that document already existing toxic contamination of local ground water and aquifers.

Comment Number: MBTL-HIA-00096-32

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 8

Comment Excerpt Text:

8. WATER QUALITY

Part D (Personal Health)

Question 14. Will there be health effects related to changes in water quality?

The report concludes that there is no evidence to support substantial contamination of groundwater that is used by the local community for drinking water. This assertion was made with inadequate evidence or analysis to support it. Studies have found gasoline, benzene, arsenic and other contaminants in local ground water and aquifers [Appendix II, pages 38-39]. If these earlier contaminants penetrated shallow and deep aquifers, why would one assume that contaminants related to the construction and operation of the MBT could not penetrate as well? Where is the description of potential health impacts that could occur should the deep aquifer (source of drinking water for residents of Longview and other communities) be contaminated by industrial and toxic pollutants? Furthermore, this conclusion of no contamination is based on coal dust emissions that are underestimated. Oil spills are not considered, as well.

Comment Number: MBTL-HIA-00108-2

Commenter: Donald Lightfoot

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

It may also include severe damage to the Columbia river ecosystem and native interests downstream and at the very dangerous waves and bar at the mouth of the river.

Comment Number: MBTL-HIA-00141-2

Commenter: Wesley Banks

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

If I lived downriver or fished the Columbia I would also be extremely concerned about the pollution that will, not might but will, get into the river.

Comment Number: MBTL-HIA-00174-1

Commenter: Richard Weiskopf

Commenter Type: General Public

Classification: Non-technical

Other Sections: 2 4 2.4 1

Comment Excerpt Text:

This project would be detrimental to air quality, water quality, human health, and global climate. It should be totally rejected.

Comment Number: MBTL-HIA-00211-1

Commenter: Kristin Fernald

Commenter Type: General Public

Classification: Non-technical

Other Sections: 1 2 2.4

Comment Excerpt Text:

I urge you to take serious consideration to the concerns expressed below. I would like to add that the risks both environmentally and to human health are far too great to mitigate the benefits of this central coal terminal. Air quality, water quality, climate change all will be affected.

Comment Number: MBTL-HIA-00211-7

Commenter: Kristin Fernald

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

And the banks of the Columbia will be dirtied with huge banks of coal.

Comment Number: MBTL-HIA-00222-1

Commenter: Tom Nieland

Commenter Type: General Public

Classification: Non-technical

Other Sections: 2

Comment Excerpt Text:

Stop poisoning air and water!

Section 5.5 - Impact to food grown on farmland or residential gardens

Comment Number: MBTL-HIA-00050-1

Commenter: Barbara Gottlieb

Commenter Type: General Public

Classification: Non-technical

Other Sections: 4 2 5.1

Comment Excerpt Text:

Having visited Oregon's Columbia River as a tourist with my family, I would like to share my concerns about this proposal. It would be extremely harmful to the health of everyone living in the river valley to have this massive coal export terminal built. The terminal as well as the related train traffic would (as your HIA indicates) pose real threats of cancer, air pollution, noise pollution and contamination of food sources.

Comment Number: MBTL-HIA-00087-010-1

Commenter: Tim Norgren

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

I recently moved from the Columbia Gorge where I was consistently pinned between the coal trains and the cliffs on hwy 14, I saw the deposits of coal dust along the tracks, and I experienced the frustration of those who have orchards and gardens near the tracks which are laden with heavy metals and toxins from the coal that already runs through there.

Comment Number: MBTL-HIA-00096-14

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 8 5.2

Comment Excerpt Text:

7. FOOD CONTAMINATION: The DHIA concludes that the project represents no risk to food safety, but this conclusion is based on underestimates of coal toxic pollutants including mercury, lead, arsenic, cadmium and DPM emissions. The DHIA ignores the findings of the "Assessment of the Health and Safety Implications of Coal Transport through Oakland" which states, "Coal dust typically contains toxics such as mercury, lead, arsenic, cadmium, and crystalline silica. These substances are of high health concern if inhaled or ingested and are known to cause cancer, fetal defects and neurological damage, even at very low doses. There are no known safe levels of exposure to these toxics." (Appendix V)

Tribes have the right to fish and harvest seafood. Tribal members and others eating shellfish could be exposed to potentially toxic and carcinogenic polycyclic aromatic hydrocarbons due to this project. (page 25)

Comment Number: MBTL-HIA-00153-2

Commenter: Mary Headrick

Commenter Type: General Public

Classification: Technical

Other Sections: 4 2 5.1

Comment Excerpt Text:

The HIA shows that Millennium would pose real threats of cancer, air pollution, noise pollution and contamination of food sources:

Comment Number: MBTL-HIA-00156-1

Commenter: Gerard Redpath

Commenter Type: General Public

Classification: Technical

Other Sections: 2 4 5.1

Comment Excerpt Text:

The HIA shows that it would pose real threats of cancer, air pollution, noise pollution and contamination of food sources

Comment Number: MBTL-HIA-00157-2

Commenter: Mike McCool

Commenter Type: General Public

Classification: Non-technical

Other Sections: 4 2

Comment Excerpt Text:

The HIA has shown that it would pose real threats of cancer, air pollution, and contamination of food sources:

Comment Number: MBTL-HIA-00160-8

Commenter: Susan Haywood

Commenter Type: General Public

Classification: Non-technical

Other Sections: 4 2 5.1

Comment Excerpt Text:

The HIA shows that it would pose real threats of cancer, heart and lung disease, neurological impairment, air pollution, noise pollution and contamination of food sources:

Comment Number: MBTL-HIA-00178-2

Commenter: Cynthia Bower

Commenter Type: General Public

Classification: Technical

Other Sections: 4 2 5.1

Comment Excerpt Text:

The HIA concludes that it would pose significant threats of cancer, air pollution, noise pollution and contamination of food sources.

Comment Number: MBTL-HIA-00199-2

Commenter: Bruce Hlodnicki

Commenter Type: General Public

Classification: Technical

Other Sections: 4 2 5.1

Comment Excerpt Text:

The HIA shows that it would increase the threats of cancer, air pollution, noise pollution and contamination of food and water sources:

Comment Number: MBTL-HIA-00205-2

Commenter: Rosemarie Carbino

Commenter Type: General Public

Classification: Non-technical

Other Sections: 4 2 5.1

Comment Excerpt Text:

The HIA already shows that it would pose real threats of cancer, air pollution, noise pollution and contamination of food sources:

Section 6 - Comparison to Newcastle/other communities

Comment Number: MBTL-HIA-00039-15

Commenter: Jasmine Zimmer-Stucky

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

- Cowlitz County and affected neighborhoods would be at even greater risk of health effects than other parts of Washington.(p. 15)

Comment Number: MBTL-HIA-00039-2

Commenter: Jasmine Zimmer-Stucky

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

While I remain concerned about the influence of Millennium on this HIA process, the data provided was striking. I was taken aback reading the information which showed the current health status of residents of Longview (and neighborhoods of Highlands, Lexington, and St. Helens) compared to other cities in Washington. The mortality rates from respiratory and cardiovascular diseases alone are a strong reminder of why we should not further endanger local residents' health with a coal export project. These neighborhoods should not become a "sacrifice zone" to benefit corporate interests.

Comment Number: MBTL-HIA-00114-2

Commenter: Tom Strawman

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

While the influence of Millennium on this HIA process remains a real concern, I was taken aback by the current health status of residents of Longview (and neighborhoods of Highlands, Lexington, and St. Helens) compared to other cities in Washington. The draft highlights the huge impacts the project will have.

Comment Number: MBTL-HIA-00115-2

Commenter: Sara Bhakti

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

A comparison of the current health status of residents of Longview (and neighborhoods of Highlands, Lexington, and St. Helens) with other cities in Washington showed discrepancies. Residents in coal transport areas seem to suffer increased health risks such as mortality rates from respiratory and cardiovascular diseases.

Comment Number: MBTL-HIA-00119-2

Commenter: Joanne Mayhew

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

As you know the current health statistics for residents of Longview (and neighborhoods of Highlands, Lexington, and St. Helens) are starkly lacking when compared to other cities in Washington especially the mortality rates from respiratory and cardiovascular diseases .

Comment Number: MBTL-HIA-00120-2

Commenter: Joanne Mayhew

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

As you know the current health statistics for residents of Longview (and neighborhoods of Highlands, Lexington, and St. Helens) are starkly lacking when compared to other cities in Washington especially the mortality rates from respiratory and cardiovascular diseases .

Comment Number: MBTL-HIA-00121-2

Commenter: Joanne Mayhew

Commenter Type: General Public

Classification: Non-technical

Comment Excerpt Text:

As you know the current health statistics for residents of Longview (and neighborhoods of Highlands, Lexington, and St. Helens) are starkly lacking when compared to other cities in Washington especially the mortality rates from respiratory and cardiovascular diseases .

Comment Number: MBTL-HIA-00123-2

Commenter: Jane Middlesworth

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The data provided was striking. The health of residents of Longview (and neighborhoods of Highlands, Lexington, and St. Helens) compared to other cities in Washington

Comment Number: MBTL-HIA-00124-2

Commenter: Jane Middlesworth

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The data provided was striking. The health of residents of Longview (and neighborhoods of Highlands, Lexington, and St. Helens) compared to other cities in Washington

Comment Number: MBTL-HIA-00124-7

Commenter: Jane Middlesworth

Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

The draft shows Cowlitz County and affected neighborhoods would be at even greater risk of health effects than other parts of Washington.)

Comment Number: MBTL-HIA-00131-2
Commenter: Catherine Caron
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

Upon reading the information which showed the current health status of residents of Longview (and neighborhoods of Highlands, Lexington, and St. Helens) compared to other cities in Washington, I was appalled at the statistics. No neighborhood should become a "sacrifice zone" to benefit corporate interests.

Section 7 - Cowlitz County general health population characteristics

Comment Number: MBTL-HIA-00004-2
Commenter: trace farrell
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

The mortality rates in Longview and surrounding neighborhoods, from respiratory and cardiovascular diseases, suggest strongly that further endangerment by way of this coal export operation are ill-advised.

Comment Number: MBTL-HIA-00039-7
Commenter: Jasmine Zimmer-Stucky
Commenter Type: Organization
Classification: Technical

Comment Excerpt Text:

- Cowlitz County consistently ranks near the bottom of Washington counties in health indicators (p. 13)

Comment Number: MBTL-HIA-00103-6
Commenter: Kevin Baier
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

*Cowlitz County consistently ranks near the bottom of Washington counties in health indicators. (p. 13)

Comment Number: MBTL-HIA-00104-3
Commenter: rejean idzerda
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

Cowlitz County consistently ranks near the bottom of Washington counties in health indicators (p. 13)

Comment Number: MBTL-HIA-00108-5

Commenter: Donald Lightfoot

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The data presented in the HIA was striking. The county mortality rates from respiratory and cardiovascular diseases alone are a strong reminder of why we should not further endanger their health with a coal export project.

Comment Number: MBTL-HIA-00123-6

Commenter: Jane Middlesworth

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The draft shows Cowlitz County consistently ranks near the bottom of Washington counties in health indicators

Comment Number: MBTL-HIA-00124-6

Commenter: Jane Middlesworth

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The draft shows Cowlitz County consistently ranks near the bottom of Washington counties in health indicators

Section 8 - Issues with the HIA (limited scope of analysis, analysis omissions, recommendations to improve analysis)

Comment Number: MBTL-HIA-00016-1

Commenter: Mary Deaton

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

We in Mount Vernon and Skagit County are well aware of the impact of coal trains on our local communities, as well have many coming though our towns on the fracking and tar sands extractions going on in Wyoming and Canada. All of the issues listed below are those we live with now. It is irresponsible for the county to limit the concerns to the areas immediately around the tracks, the storage locations, and the transfer into ships.

I live on a hill above downtown Mount Vernon where both coal and oil trains travel through the downtown several times a week, snarling traffic and creating noise. In the case of coal trains, dust is a factor. A study done locally in 2013 Or 2014, showed should a coal or oil train crash or explode coming though downtown, it would impact several elementary schools near the route, all of the downtown shopping area, the Skagit River (which flows through downtown), and in the case of an explosion like the one in Quebec, wipe out downtown and our neighborhood on the hill above the tracks.

Comment Number: MBTL-HIA-00036-2

Commenter: Michael O'Neill

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Negative: * Reading level and overall sophistication of document is too high to be accessible for general population (only 16% w/college degree or higher) * Only analyzes questions individually, no summary table or meta-analysis provided * Many questions do not result in clear analysis - would require research outside the scope of the HIA process, and/or provide positive and negative data points without a framework for evaluating weight of evidence * Document does not provide clear recommendations - this seems like a big miss, sense it is a named step in the HIA process the document describes

Comment Number: MBTL-HIA-00036-5

Commenter: Michael O'Neill

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Requested Changes * Provide a strength of evidence framework to evaluate findings for each question and use the framework to provide additional analysis for each question * The Steering Committee should review and discuss findings, and their feedback should be used to create an abstract/summary for each section of the HIA (shoot for 8th grade reading lvl in abstracts) * The Steering Committee should use the findings to develop recommendations for maximizing project benefits and minimizing negative project impacts (e.g. develop low income housing away from air pollution contours to reduce the concentration of vulnerable populations in areas where they will be exposed to pollution) - at a minimum, the Steering Committee should provide recommendations for every finding that has a high strength of evidence * Provide a master table that summarizes the findings for each question, whether the finding has a positive or negative impact on health, the expected magnitude of the impact, time-scale at which the impact is likely to occur, and the strength of evidence supporting the finding

Comment Number: MBTL-HIA-00039-1

Commenter: Jasmine Zimmer-Stucky

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

This is the first draft HIA to be prepared by Cowlitz County in cooperation with the Washington Department of Health.

While lacking in some areas, this draft is a strong start. It should provide the basis for strong recommendations from the HIA Steering Committee to prevent construction of the MBTL project and forever protect the health of communities from the dangers of coal mining, transport, storage and export. It can also be a tool to protect the health and safety of Cowlitz County residents from future projects that endanger human health and our climate.

Comment Number: MBTL-HIA-00039-14

Commenter: Jasmine Zimmer-Stucky

Commenter Type: Organization

Classification: Technical

Other Sections: 4.2

Comment Excerpt Text:

Please acknowledge that the significance of the draft HIA is limited due to the severely constrained geographic scope of the study area. The section on impacts from 16 trains passing through at-grade crossings in Cowlitz County each day and related health impacts due to delayed emergency response time is sorely lacking. If improved, it would at least help inform the municipalities along the transportation corridor of potential impacts to their residents and emergency services.

Comment Number: MBTL-HIA-00043-2

Commenter: Ruth Charloff

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The draft HIA fails to recognize additional serious threats posed by many heavy metals and other toxics that would be released due to the proposed coal export terminal. Many of these serious health impacts cannot be mitigated.

Comment Number: MBTL-HIA-00047-2

Commenter: Dorothy Brockway

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

This draft omits important information about the consequences of building this terminal. The effect on health and the environment cannot be mitigated. We are reducing the use of coal in this country because of these negatives. Global climate will not be helped by exporting our dirty coal. (There is no such thing as "clean" coal.)

Comment Number: MBTL-HIA-00063-6

Commenter: Michael Gochfeld

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

In addition to these health threats, the draft HIA fails to recognize the serious threats posed by many heavy metals and other toxics that would be released due to the proposed coal export terminal.

Comment Number: MBTL-HIA-00067-1

Commenter: Jerry Cufley

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

I would like to bring to your attention two concerns regarding the HIA for MTB-L. First, there does not seem to be a cost accounting of the illnesses and deaths imposed on the population at risk by the proposed operation. Monetarily measurable resources would be consumed providing the medical services required by the incremental number of people adversely affected. Such costs would include hospitalizations, clinic visits, medications, social

services, and a variety of other direct and indirect impacts. Attempts have been made to put a monetary value on a human life itself. These evaluations, although crass, look at the costs of, for example, how many normal mammograms or colonoscopies it takes to save a human life or jury awards. The consensus in America appears to be 6-9 million dollars.

Comment Number: MBTL-HIA-00067-2

Commenter: Jerry Cufley

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

My second concern is that the FEIS determination that the coal will be exported through some other facility if not through Longview and be eventually burned in its entirety seems to defy reality. A more accurate accounting might be the following: MTB-L presumably has sought out the cheapest route for transportation of coal from Montana to foreign markets. If MTB-L were to find itself having to use a less desirable, more expensive route, the coal would be more expensive for the end user and less would be consumed. Although the resultant decrease in global GHG emissions would likely have only minuscule immediate impact on the residents of Cowlitz County in any one year, decrease in the use of fossil fuels planned to be shipped through Longview over 30-50 years could result in a measurable impact on global warming, a threat to everyone, including the population of Cowlitz County.

Comment Number: MBTL-HIA-00076-10

Commenter: Diane L. Dick

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The HIA would be improved by including information and resources from other permit documents. Question 14 on water quality should incorporate the opinion from Section 3 of the Section 401 Water Quality Certification in the Department of Ecology Section 401 Water Certification denial issued to Millennium Bulk Terminals September 26, 2017.

Rail congestion, noise, water quality and other health impacts are addressed in the Cowlitz County Hearings Examiner Shoreline Permit decision issued November 14, 2017.

Comment Number: MBTL-HIA-00076-2

Commenter: Diane L. Dick

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Though much time and effort has been expended on the endeavor the last couple years, I realize this report is only a draft. Overall I find the quality of the report inconsistent and lacking. Question 10 was not answered. Question 9 essentially was answered by repeating some of the data in the FEIS technical report and said look there for detail. In other words, no analysis or answer to the question.

Comment Number: MBTL-HIA-00076-3

Commenter: Diane L. Dick

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

While Section 3, Impacts Identified in Other Communities with Coal Export, seemed to address Question 8 about how coal has affected health in other communities, the two pages devoted to statistics about Newcastle, Australia were worthless for understanding the impact of coal on the city. Why was research not provided on communities closer to Longview, such as those with coal terminals in British Columbia, or Appalachian communities in the eastern United States with long histories hosting the coal industry? Thus, Question 8 was not answered.

Comment Number: MBTL-HIA-00076-4

Commenter: Diane L. Dick

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The HIA needs to explain why Lexington was included as a population comparison versus some other area of Cowlitz County. Lexington is distant from the coal terminal site and located across the Cowlitz River away from the BNSF main rail line. Why was the City of Kelso not included? This city is located on the rail line and will be directly impacted by noise, dust, and at grade crossing congestion by 8 additional trains per day if the empty rail cars are returned by the northern route as anticipated. Social and environmental justice populations in Kelso are located close to the rail line. Numerous homes are located within 200 feet of the rail line and will be impacted by dust from empty rail cars and DPM from the 8 additional trains. This is an egregious oversight not to include health impacts to this dense population center close to the main line.

This brings up criticism of the HIA's over reliance on the MBT FEIS as a source document for coal dust data. There were over a hundred substantive comments to the DEIS on coal dust. Most of the FEIS responses to the comments were to refer back to the coal dust section.

Comment Number: MBTL-HIA-00076-6

Commenter: Diane L. Dick

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

If the HIA is to rely on the FEIS, then it would seem all emissions comparisons to other coal terminals would be fruitless, "Emissions for other coal export terminals, such as the Hay Point Terminal in Australia, cannot be applied directly to the Proposed Action." That would include the two pages of data on Newcastle noted above.

Comment Number: MBTL-HIA-00076-7

Commenter: Diane L. Dick

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

I have other concerns about the HIA. On page 10 is the statement in reference to air pollution from roadways and transportation corridors that air quality generally returns to background levels at about 500-600 feet downwind. What does this mean for the project study area if the project raises the background levels?

Comment Number: MBTL-HIA-00076-8
Commenter: Diane L. Dick
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

Page 17 addressing Question 6, “How will this affect local taxes and will that affect health?”, states, “Some forms of development can have negative impacts on vacancy rates, property values and business investment, therefore detracting from the existing tax base.” That is part of the question the committee has asked to have answered. Positive economic impacts for this terminal have been touted for over six years. What have not been discussed are the negative economic impacts to existing businesses and residential property owners. This question has not been answered.

Comment Number: MBTL-HIA-00076-9
Commenter: Diane L. Dick
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

Page 30 uses outdated unemployment rate for Cowlitz County.

Comment Number: MBTL-HIA-00086-1
Commenter: Beth Kaeding
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

A major problem with the draft is that it does not acknowledge that the impacts presented for Cowlitz County ALSO are the impacts that the proposed coal trains would have for more than 1,000 miles and on hundreds of communities along the rail line back through Washington, Idaho, Montana, and Wyoming to the point where the coal is loaded on the trains. The thousands of people along these rail lines whose health would be affected by this project are as important as those in Cowlitz County and, at the very least, need to be acknowledged.

Comment Number: MBTL-HIA-00086-2
Commenter: Beth Kaeding
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

If the HIA is revised and more inclusive, it would help inform the municipalities along the transportation corridor of potential impacts to their residents and emergency services.

Comment Number: MBTL-HIA-00092-1
Commenter: Laura Ackerman

Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

While the HIA was decent I would urge you to make the final more comprehensive. First off, impacts were mentioned but they were too generalized. This is especially seen in the section on multiple traffic delays at at grade crossings. What would the cumulative delay be in one day?

Comment Number: MBTL-HIA-00092-2
Commenter: Laura Ackerman
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

Up-rail communities was mentioned once in the document, but rail communities are a part of this whole proposal. MBT would not exist without rail communities. When you focus only on the community in which the proposal would be built you miss the serious impacts of those of us who live along the rail lines. Facilities like this can't exist in a vacuum. Up-rail communities don't get any benefits from this facility, if built, and we certainly would get no revenue sharing. But coal dust, vehicle delays and air pollution are significant in rail communities. You may actually learn more about the health impacts of the proposal in Cowlitz County by understanding more about the health impacts in rail communities.

Comment Number: MBTL-HIA-00092-3
Commenter: Laura Ackerman
Commenter Type: General Public
Classification: Technical

Comment Excerpt Text:

Second, what are the specific ways that some of the negative health impacts can be mitigated if possible? That is what an HIA should do. And it also needs to explain in plain language how it can damage our children, grandchildren and those who are sensitive in some way because of diseases.

Comment Number: MBTL-HIA-00092-4
Commenter: Laura Ackerman
Commenter Type: General Public
Classification: Technical
Other Sections: 5.1

Comment Excerpt Text:

Third, while I understand that not all studies can be put into an HIA I would like to see a more comprehensive list. I would also like to be able in the studies cited, have an on line link for reading some of them myself.

As an example, with the noise studies you used, I found some more studies on line, that help validate what is in the HIA. Noise is becoming an increasingly alarming human health problem. And just as an additional fact, human produced noise is also harming many non-human species. Many studies exist on this.

I checked on some noise studies I know about and found that I had two that were the same as you listed, but I also found more (and there are more than this) and in case you are curious here they are:

Airport Noise Can Seriously Affect The Health And Psychological ...[link:

<https://www.sciencedaily.com/releases/1998/03/980306043455.htm>]

Mar 6, 1998 ... Other studies have been cross sectional, comparing people exposed to noise to well-matched controls who were not subjected to noise. Evans, an environmental psychologist and an international expert on environmental stress (such as noise, crowding and air pollution) and his German and Swedish

Traffic noise is dangerous for your health: Solutions exist for dense ... [link:
<https://www.sciencedaily.com/releases/2014/07/140701085328.htm>]

Jul 1, 2014 ... Traffic noise is the second biggest environmental problem in the EU, according to WHO. After air pollution, noise is affecting health the most. But legislation regarding noise pollution is insufficient. A new report shows how negative health effects of noise can be reduced. Several means are easiest to apply in

Transportation noise increases risk for cardiovascular diseases and ... [link:
<https://www.sciencedaily.com/releases/2017/06/170621103143.htm>]

Jun 21, 2017 ... Noise also favours Diabetes. In addition to cardiovascular diseases, transportation noise also increases the risk of developing diabetes. This is shown by an examination of 2,631 people exposed to different degrees of noise pollution. "Two mechanisms play a role," explains Nicole Probst-Hensch, Head of

Substantial road traffic noise in urban areas contributes to sleep ... [link:
<https://www.sciencedaily.com/releases/2012/09/120911091353.htm>]

Sep 11, 2012 ... The World Health Organization recently recognized environmental noise as harmful pollution, with adverse psychosocial and physiological effects on public health. A new study of noise pollution in Fulton County, Georgia, suggests that many residents are exposed to high noise levels that put them at risk of

Noisy Roads Increase Risk Of High Blood Pressure -- ScienceDaily [link:
<https://www.sciencedaily.com/releases/2009/09/090909203148.htm>]

Sep 11, 2009 ... Traffic noise raises blood pressure. Researchers have found that people exposed to high levels of noise from nearby roads are more likely to report suffering from hypertension.

Effect of loud noises on brain revealed in study -- ScienceDaily [link:
<https://www.sciencedaily.com/releases/2014/07/140731102524.htm>]

Jul 31, 2014 ... Prolonged exposure to loud noise alters how the brain processes speech, potentially increasing the difficulty in distinguishing speech sounds, according to neuroscientists. Exposure to intensely loud sounds leads to permanent damage of the hair cells, which act as sound receivers in the ear.

Long term exposure to aircraft noise linked to high blood pressure ... [link:
<https://www.sciencedaily.com/releases/2017/06/170613185148.htm>]

Jun 13, 2017 ... They point out that they were unable to look at specific causes of death among the 78 people who died between 2004-6 and 2013. The numbers studied were also relatively small, and it wasn't possible to account for the potential effects of air pollution. Nevertheless, a growing body of evidence links noise

Too much 'noise' can affect brain development -- ScienceDaily [link:
<https://www.sciencedaily.com/releases/2016/04/160415143942.htm>]

Apr 15, 2016 ... Using cutting-edge imaging technology, biologists have determined that uncontrolled fluctuations

(known as "noise") in the concentration of the vitamin A derivative Retinoic acid (RA) can lead to disruptions in brain organization during development.

Male infertility could be linked to noisy bedrooms: Could sleeping ... [link:
<https://www.sciencedaily.com/releases/2017/06/170628095837.htm>]

Jun 28, 2017 ... Long-term exposure to a noisy environment, particularly at night, is linked to infertility in men, according to a study in Environmental Pollution. The researchers found that exposure above the WHO night noise level (55 dB -- equivalent to the noise of a suburban street) is linked to a significant increase in

Life in the city: Living near a forest keeps your amygdala healthier... [link:
<https://www.sciencedaily.com/releases/2017/10/171018113515.htm>]

Oct 18, 2017 ... Noise, pollution, and many people in a confined space: Life in a city can cause chronic stress. City dwellers are at a higher risk of psychiatric illnesses such as depression, anxiety disorders, and schizophrenia than country dwellers. Comparisons show higher activity levels in city dwellers' than in country

Brain waves control the impact of noise on sleep -- ScienceDaily [link:
<https://www.sciencedaily.com/releases/2011/09/110906121014.htm>]

Sep 6, 2011 ... During sleep, our perception of the environment decreases. However the extent to which the human brain responds to surrounding noises during sleep remains unclear. Researchers have now used brain imaging to study responses to sounds during sleep. They show that brain activity in the face of noise is

City air pollution cancels positive health effects of exercise in over 60's [link:
<https://www.sciencedaily.com/releases/2017/12/171206091951.htm>]

Dec 6, 2017 ... As expected, noise and pollution levels were significantly higher on Oxford Street compared to Hyde Park, including increased measures of black carbon, nitrogen dioxide and fine particulate matter. Analysis revealed that all participants benefitted from a stroll in the park, with lung capacity improving within

Traffic-related air pollution substantial public health concern ... [link:
<https://www.sciencedaily.com/releases/2013/10/131021131002.htm>]

Oct 21, 2013 ... Traffic-related air pollution is increasingly shown to have negative health effects according to a growing body of epidemiologic evidence and is a substantial public health concern in Canada.

Noise disrupts the tactile skills of premature babies -- ScienceDaily [link:
<https://www.sciencedaily.com/releases/2016/03/160322082048.htm>]

Mar 22, 2016 ... Premature birth is a harsh change of environment for a baby. Until birth, the baby is confined to the mother's womb, surrounded by soft lighting and filtered noise. When infants are born, they are attacked by several visual, sound, and tactile stimulations. Researchers have examined the consequences of ...

Aircraft noise linked to heart disease, study suggests -- ScienceDaily [link:
<https://www.sciencedaily.com/releases/2013/10/131009100602.htm>]

Oct 9, 2013 ... Factors that could have affected the results, such as age, sex, ethnicity, social deprivation, smoking, air pollution, and road traffic noise were also taken into account. Accounting for the prevalence of people of South Asian ethnicity reduced the observed risks for hospital admissions for coronary heart .

Another concern I want to mention is that some humans like those with autism and PTSD are very sensitive to noise. These sensitivities need to be further explored in the HIA and then let citizens know how some of the negative impacts can be mitigated. Here is just one study on noise sensitivity:

<https://www.sciencedaily.com/releases/2017/12/171213104943.htm> [link:
<https://www.sciencedaily.com/releases/2017/12/171213104943.htm>] Noise sensitivity visible in brain structures.

As a mother of an autistic child, noise is a problem: Youth on the autism spectrum overly sensitive to sensory stimuli ...

Jun 10, 2015 ... Using functional magnetic resonance imaging, a team of UCLA researchers has shown for the first time that children with autism spectrum disorder (ASD) who are overly sensitive to sensory stimuli have brains that react differently than those with the disorder who don't respond so severely to noises, visual ...

Enhanced motion perception in autism may point to an underlying ...[link:
<https://www.sciencedaily.com/releases/2015/06/150610131634.htm>]

May 8, 2013 ... Such heightened sensory perception in autism may help explain why some people with the disorder are painfully sensitive to noise and bright lights. It also may be linked to some of the complex social and behavioral deficits associated with autism, says Dujie Tadin, one of the lead authors on the study and ...

Comment Number: MBTL-HIA-00092-5

Commenter: Laura Ackerman

Commenter Type: General Public

Classification: Technical

Other Sections: 5.1

Comment Excerpt Text:

And finally on noise, please do more research specifically on train whistle noise. As an activist I hear a lot about train whistles and how annoying they are for humans who live near them. A few years ago I was sitting in a coffee shop in downtown Cheney, WA with a friend. It was a summer day and the door to the shop was open. A train came by (Cheney and Spokane will get all the coal trains for this proposal as well as all types of cargo, manifest and unit trains) and the whistle was so loud I could not hear my friend talk who was literally a foot away. Train whistles are a part of the safety of at grade crossings, but they are also difficult on the ears. Train whistles are a chronic complaint (I have researched this) across the US and Canada and you need to research that, link articles about that in the HIA and suggest some possible solutions.

Cumulative effects of rail traffic and noise need to be taken into account when it comes to communities who may see more than one proposal or are the rail communities for more than one proposal on top of the already existing traffic. A city like Spokane is a perfect example of that.

Comment Number: MBTL-HIA-00092-6

Commenter: Laura Ackerman

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

And finally, I have to mention that the release of the HIA was poor in terms of timing. Why public officials cannot figure out that it's not appropriate to release public documents and ask for comments during holidays, is

beyond me, as a citizen. It's not democratic. I have had little time to look at the studies cited, and compare them with other literature that exists. I need at least 60 days, and I work on energy issues for a living. Please be more mindful of the everyday working person who would like to comment but can't get it done so quickly. And again, I hope the final HIA is more comprehensive, has real-life suggestions for some mitigation, further links for study, and some analysis (practically none for the Newcastle section) with depth.

Comment Number: MBTL-HIA-00095-1

Commenter: Chris Turner

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

I have found that the HIA is lacking in a number of areas. Particularly, in that it does not draw from the experts/conclusions that are accumulated within the four denied permits for the Millennium facility. These denied permits are now available for review and should be included within the final HIA report.

For example, the 401 Water Quality from DOE has significant information about the lack of appropriate documents regarding water quality, and addresses other pertinent areas of the coal terminal project.

Other documents such as the City of Longview's Ordinance and other wellhead protection documents that describe the Mint Farm Wells in relation to Millennium have not been evaluated. There are some other sources of information that would have been helpful to answer a number of the questions in the HIA, that were not included in this report.

Comment Number: MBTL-HIA-00095-2

Commenter: Chris Turner

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Also, a great deal of the information provided in the HIA, is copied from the EIS, and does not include appropriate relative important information that was provided within the same document. The HIA does not include appropriate other investigation of the issues, or conclusions reached by the steering committee itself.

QUESTION 14. Will there be health effects related to changes in water quality?

“Safe and reliable drinking water is a chief priority for protecting community health”

MINT FARM COMMUNITY DRINKING WATER WELLS

The City of Longview Ordinance 3209, Water Supply Protection says:

RESTRICTIONS.....

“Any other activity that has the POTENTIAL to reduce the aquifer recharge, flow, or WATER QUALITY, or otherwise THREATEN the use of the municipal water supply, as determined by the Director”

Table 5-2 in the report from Kennedy-Jenks-Consultants from February 1, 2012 on the Mint Farm Wells -

Wellhead Protection Program includes MILLENNIUM BULK TERMINAL in the Table as a POTENTIAL source of Contamination. This report shows the potential of contamination from existing operations in 2012, well before the coal terminal with 85ft stacks of coal on the ground, spread over 75 acres was proposed.

Millennium's project site is located squarely on the wellhead protection area for the Mint Farm Community drinking wells, which are classified for "human consumption".

Millennium's EIS for the proposed coal terminal, constantly uses the words UNLIKELY, predominately recharged from the deep aquifer. The HIA is now using NOT LIKLEY AND UNLIKELY. If this terminal has the POTNETIAL to contaminate our drinking water wells, it should not be approved.

Kennedy-Jenks report also stats that just North of Millennium, a portion of the shallow aquifer leads to the deep aquifer and the deep aquifer also comes to the surface of the shallow aquifer.

This project has already shown not to be appropriate for a wellhead protection area. Millennium has not bothered to investigate with the combined efforts of an Earthquake Geotechnical Engineer, and a hydrologist, the connection between multiple issues regarding the Mint Farm Wells/wellhead of the proposed coal terminal. Specifically, the shallow aquifer at the project site could be as close to the surface as 3 ft, high rate of liquefaction in an earthquake, limited weight load carrying capacity of the soil, no soils improvements other than reloading, connections between the shallow and deep aquifers, and fact that according to ACE, the soil is corrosive to concrete and steel.

The HIA states, "Polyaromatic hydrocarbons (PAHs) are considered a hazardous substantive under the Act. PAH's MAY OR MAY NOT leach off of coal stockpiles and contaminate groundwater or soils".

In combination, these issues just mentioned, further cement the fact that a coal terminal would easily be considered a cause for PORENTIAL reduction of water quality and POTENTIAL to contaminate the drinking water wells.

Comment Number: MBTL-HIA-00095-3

Commenter: Chris Turner

Commenter Type: General Public

Classification: Technical

Other Sections: 5.4

Comment Excerpt Text:

QUESTION 12. WILL FISH IN THE COLUMBIA RIVER BE CONTAMINATED, AND IF SO, WHAT WILL BE THE HEALTH IMPACTS ON PEOPLE WHO EAT THE FISH?

WATER QUALITY IN THE COLUMBIA RIVER AND WASHINGTON WATERWAYS

In the DOE 401 Water Quality Permit Denial, Millennium has not provided DOE with sufficient data/documents to evaluate the degradation of water quality from the proposed facility.

SIERRA CLUB VS BNSF- The judge recently determined that coal dust deposited into the Washington waterways is a violation of the "Clean Water Act".

According to ACE in the EIS, coal dust during normal operations will be deposited into the Columbia River from the coal terminal. The coal dust will increase the suspended solids/turbidity of the water. The coal will migrate downstream several miles. Coal. Dust because of its properties, will block the photosynthesis of the plants in the

river, reducing the food availability to aquatic life in the estuary. The coal dust will suffocate/strangle the fish. It doesn't take much research to discover that coal dust/particles are composed of arsenic, lead and mercury, among other toxins. I'm not a fish biologist, but I do know that Mercury is a concern for humans that consume fish.

Coal dust/particle spills at the terminal or due to collisions or groundings from vessels has not been addressed in the HIA, in relation to the degradation of water quality in the Columbia River.

Turbidity is a good measure of the quality of the water.

Original dredging and maintenance dredging, pile driving, causing suspended solids/turbidity in the water column have not been included in the water quality evaluation. Maintenance dredging done every couple of years would be a continuing disturbance of aquatic life and water quality in the Columbia River, as well as continued deposition of coal dust from the terminal.

Millennium proposes to remove a significant number of creosote-coatings pilling (containing 18 different chemicals) possibly causing long-term toxic suspended solids/turbidity in the water column in the Columbia River.

Among the issues that Millennium has not addressed with DOE or will cause water quality issues are:

Stormwater runoff-no permission to use stormwater to sprinkle on stockpiles of the coal.

Water rights may not be accessible to Millennium.

No permission to use Mixing Zones in the Columbia River for wastewater/runoff.

Composition of the wastewater that will be discharged into the Columbia River is unknown.

The protection that is required to protect the endangered and threatened fish in the Columbia River and the ability to consume the fish in the river, demands that the water quality and discharges from the Millennium facility be evaluated completely.

But, Millennium has chosen not to make available the data/documents to DOE. The evidence available at this time, without question, is that the coal terminal will degrade the water quality of the Columbia River beyond what is acceptable, and harm the aquatic life in the river.

Comment Number: MBTL-HIA-00095-5

Commenter: Chris Turner

Commenter Type: General Public

Classification: Technical

Other Sections: 5.3

Comment Excerpt Text:

SURFACTANTS/BNSF

BNSF did not give the HIA steering committee the complete list of surfactants that are approved by BNSF. So, testing is a waste of time.

In addition to that, BNSF allows their customers to use whatever surfactant that they choose, as long as it reduced the coal dust by 85%. None of the surfactants that I have seen say anything about being Biodegradable.

The fact is that BNSF has not been forthcoming to anyone about the ingredients of their surfactants. This isn't just about the proprietary nature of the ingredients. They don't want the ingredients known because of their toxic nature/interaction in the environment.

It is almost impossible to gauge the exact effects of coal dust/particles without knowing what the surfactants are that are being constantly sprayed onto the coal. This includes the effect of coal dust on water quality/contamination as well as on human health. So, more than likely, the results indicated in the HIA would be much more hazardous/deadly to our health.

Since, Millennium asserts no responsibility/control outside of their facility, the railroads are not required to use surfactants. If Millennium chooses to use Union Pacific, instead of BNSF to ship their coal, UP does not have a surfactant policy.

Comment Number: MBTL-HIA-00095-6

Commenter: Chris Turner

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

SPONTANEOUS COMBUSTION OF COAL

The HIA does not have any information about the threat of spontaneous combustion of the stockpiles at the proposed facility. Common knowledge is-it isn't if a fire will occur, but when. There is no mention about monitoring the stockpiles for fires. Obviously, this is an important worker health safety issue as well a community safety issue. Burning coal is the worst-case scenario at a terminal, and has not been addressed by Millennium.

A report stated that the maximum height of any type of coal, stockpiled, should be 26 feet. At 85 feet, the Millennium stockpiles are well beyond this requirement. There is no indication that the equipment at the project site will be able to reach a fire in an appropriate timeframe. At 85 feet, spread over 75 acres, it is unlikely that a stockpile could be spread out to reach the fire source.

This spontaneous combustion property of the coal, is also a worker safety health issue for any of the covered areas of the project site. This includes the covered conveyor belts to load the vessels, and the car turning area to unload the railcars. These confined spaces present a fire danger, and also concentrate the coal dust exposure for workers, beyond what's necessary.

Comment Number: MBTL-HIA-00095-7

Commenter: Chris Turner

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

INCREASED LENGTH OF TRAINS

In the future, the railroad companies are anticipating an increase in the length of their trains. Possibly as much as 50%. This increase without anyone's ability to discuss/influence the results, very well could drastically change a number of issues with this proposed coal terminal.

The timeframes at the at-grade crossings, number of diesel locomotives per train, emergency response times, increase in waiting/idling times at railroad control signals etc. beyond those mentioned in the HIA study.

The HIA doesn't seem to address this future, foreseeable change in railroad activities. Splitting trains was mentioned by BNSF at Millennium's Shoreline hearing, but there was no further discussion.

Comment Number: MBTL-HIA-00095-8

Commenter: Chris Turner

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

CONCLUSION

I believe that the Draft HIA needs more work. For the questions that have been asked, the information provided needs to be complete, not just a little portion of the issue. More investigation needs to go into the answers that have been provided.

Millennium should not be allowed, to just not provide data/documents to avoid evaluation of their project.

Nor, should they be able to isolate themselves within their project fences, and not take responsibility and control over the railroad and vessels that carry their product. These avoidance tactics being used by Millennium should be mentioned within the HIA document.

Comment Number: MBTL-HIA-00096-1

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

Oregon and Washington Physicians for Social Responsibility recognize the considerable time and effort devoted to the analysis of health impacts from the proposed coal terminal. The DHIA does include a detailed profile of baseline health status of the residents of the County including the most vulnerable populations. The DHIA also undertakes an analysis of the positive health impacts of economic growth. We find, however, that the DHIA minimizes some of the risks to health and fails to consider the full range of potential health impacts. It also falls short in its very limited geographic scope. Many organizations and municipalities requested an HIA that extended from the mines to the port, including the railroad corridor and the shipping corridor. Instead we are reviewing a DHIA that considers only a portion of Cowlitz County, WA. Nonetheless, it is important to acknowledge that there is sufficient evidence in the DHIA to support a recommendation of the HIA Steering Committee that the project not move forward because many significant negative health impacts cannot be mitigated.

Comment Number: MBTL-HIA-00096-10

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 2

Comment Excerpt Text:

3. AIR QUALITY MONITORING: The DHIA does not address the problem of grossly inadequate air quality monitoring in the affected areas, either for purposes of assessment or ongoing monitoring.

Comment Number: MBTL-HIA-00096-11

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 3

Comment Excerpt Text:

4. ECONOMIC PROSPERITY: The DHIA includes an analysis of the positive impacts of projected economic growth in the County of the proposal. It includes, however, no analysis of the economic impact of negative health outcomes. It fails to include recent information pertaining to the viability of the coal industry. The implication that the coal terminal would have a net positive effect on community prosperity is not supported.

Comment Number: MBTL-HIA-00096-12

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 4.1

Comment Excerpt Text:

5. GLOBAL CLIMATE CHANGE: The DHIA includes a detailed analysis of the adverse effects of global climate change on the residents of Cowlitz County. It notes that “changes in Washington’s climate in the near and midterm future will likely increase hazards to human health and increase health disparities. Without preventative and protective measures, this will worsen a variety of health outcomes.” It also states, “What is certain is that if increasing global GHG emissions from human activities continues on a business as usual path, residents in Washington and Cowlitz County will experience far greater harms than if the level of GHG emissions at the global level are dramatically reduced sufficient to arrest the increase in atmospheric GHG concentrations and limit global warming to under 2 degrees Celsius.” The assessment, however, declines to acknowledge the negative impact of the proposed coal terminal to global climate change.

Comment Number: MBTL-HIA-00096-13

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 5.1

Comment Excerpt Text:

6. RAIL CONGESTION AND NOISE POLLUTION: There is higher noise exposure in low- income areas in Cowlitz County. Noise is associated with higher rates of high blood pressure, heart attack and heart disease. Cowlitz County and the neighborhoods that would be most impacted by increased noise already experience higher than average rates of these diseases and that increased noise will contribute to further increase in these rates. (page 23)

The DHIA does not describe the full range of negative health impacts of noise and traffic congestion generated by projected increase in rail traffic, including an increase in the number of train accidents as described in the FEIS.

A single train could delay traffic by 9 minutes at at-grade crossings. There will be 16 train trips each day at full operation. This could decrease accessibility of public services and increase wait times for emergency vehicles. (page 21) The DHIA does not describe the health implications of delayed response times. These include death and/or disability for cardiac and stroke patients, accident patients, and all patients threatened by emergent life and

death situations.

Comment Number: MBTL-HIA-00096-14

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 5.5 5.2

Comment Excerpt Text:

7. FOOD CONTAMINATION: The DHIA concludes that the project represents no risk to food safety, but this conclusion is based on underestimates of coal toxic pollutants including mercury, lead, arsenic, cadmium and DPM emissions. The DHIA ignores the findings of the “Assessment of the Health and Safety Implications of Coal Transport through Oakland” which states, “Coal dust typically contains toxics such as mercury, lead, arsenic, cadmium, and crystalline silica. These substances are of high health concern if inhaled or ingested and are known to cause cancer, fetal defects and neurological damage, even at very low doses. There are no known safe levels of exposure to these toxics.” (Appendix V)

Tribes have the right to fish and harvest seafood. Tribal members and others eating shellfish could be exposed to potentially toxic and carcinogenic polycyclic aromatic hydrocarbons due to this project. (page 25)

Comment Number: MBTL-HIA-00096-15

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 5.4

Comment Excerpt Text:

8. WATER QUALITY: The DHIA considers effects of water quality in relationship to PAH contamination of edible fish, but concludes that potential negative impacts are tiny. The DHIA additionally concludes that drinking water in the area will be safe from contamination. Again, this conclusion is based on underestimates of coal emissions and minimizes studies that document already existing toxic contamination of local ground water and aquifers.

Comment Number: MBTL-HIA-00096-16

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 5.3

Comment Excerpt Text:

9. HEALTH EFFECTS OF TOPPER AGENTS (SURFACTANTS):

The DHIA concludes that these risks are minimal while acknowledging that the science behind this conclusion is limited. Review was limited because some ingredients are proprietary or were not sufficiently identified to be reviewed independently for potential health impacts. (page 26) Therefore the potential risk to the local population and rail communities from the mines to the terminal is unknown.

Comment Number: MBTL-HIA-00096-17

Commenter: Regna Merritt

Commenter Type: Organization
Classification: Technical

Comment Excerpt Text:

10. PAHs, HEAVY METALS, AND OTHER TOXINS: The DHIA fails to adequately consider negative health impacts of a number of other toxics associated with coal transport, export and combustion including mercury and other heavy metals plus polycyclic aromatic hydrocarbons (PAHs), many of which are carcinogens. There was no discussion of cumulative impacts of many toxins and air pollutants, which may have additive and synergistic effects that exacerbate negative health impacts.

Comment Number: MBTL-HIA-00096-18
Commenter: Regna Merritt
Commenter Type: Organization
Classification: Technical

Comment Excerpt Text:

11. OCCUPATIONAL HEALTH AND SAFETY: The DHIA fails to independently investigate the potential adverse effects on worker health at the coal terminal site. The DHIA does consider impacts of exposure to topper agents at the site of application. Eye, skin, and lung irritation as well as gastrointestinal disturbances are possible. The DHIA fails to consider that workers at the terminal site may be at risk for “coal mine dust lung disease,” as are workers at surface coal mines.

Comment Number: MBTL-HIA-00096-19
Commenter: Regna Merritt
Commenter Type: Organization
Classification: Technical

Comment Excerpt Text:

12. MARINE ACCIDENTS AND TOXIC SPILLS: The DHIA fails to take into consideration the negative health impacts of potential marine accidents and toxic spills associated with increased shipping in the Columbia River.

Comment Number: MBTL-HIA-00096-2
Commenter: Regna Merritt
Commenter Type: Organization
Classification: Technical

Comment Excerpt Text:

The DHIA frequently fails to adhere to the Precautionary Principle, a critical component of public and environmental health practice. The Precautionary Principle states that “should an activity raise threats of harm to human health or the environment, precautionary measures should be taken even if some cause and effect relations are not fully established scientifically.” (Wingspread Conference, 1998). The DHIA rather tends to dismiss concerns that are not scientifically established beyond refute. The precautionary principle holds that in the event of insufficient evidence that an action may cause harms, the burden of proof falls on those taking the action to demonstrate that it will not be harmful. [5] Furthermore, it is the responsibility of decision-makers to ensure that the estimates of the number of people who might experience adverse health impacts are reasonable and reliable.

Comment Number: MBTL-HIA-00096-20
Commenter: Regna Merritt

Commenter Type: Organization
Classification: Technical

Comment Excerpt Text:

13. RAIL ACCIDENTS AND TOXIC SPILLS: The DHIA fails to take into consideration the negative health impacts of potential rail accidents and toxic spills associated with increased rail traffic.

Comment Number: MBTL-HIA-00096-21
Commenter: Regna Merritt
Commenter Type: Organization
Classification: Technical

Comment Excerpt Text:

14. CATASTROPHIC EXPLOSION: According to the Oakland Coal Export report, there are inherent hazards in transporting and handling coal, including the risk of catastrophic explosion. “Since coal is inherently combustible, each step in its handling creates hazards for workers and nearby communities.” The DHIA does not examine or describe these risks to human health and safety.

Comment Number: MBTL-HIA-00096-22
Commenter: Regna Merritt
Commenter Type: Organization
Classification: Technical

Comment Excerpt Text:

15. UP- AND DOWNSTREAM COMMUNITIES: The DHIA fails to take into consideration the negative health impacts on up- and downstream communities, including Native American tribes, from increased marine traffic, rail traffic, and coal transport.

Comment Number: MBTL-HIA-00096-23
Commenter: Regna Merritt
Commenter Type: Organization
Classification: Technical

Comment Excerpt Text:

16. STAKEHOLDERS: The DHIA includes no evidence that all stakeholders, including the most vulnerable populations, have yet been involved in the assessment.

Comment Number: MBTL-HIA-00096-24
Commenter: Regna Merritt
Commenter Type: Organization
Classification: Technical
Other Sections: 4.3

Comment Excerpt Text:

17. ACTIVE TRANSPORTATION AND RECREATION: For lack of time, the authors of the DHIA failed to answer this question. This is a key omission because we know that recreational facilities at schools, soccer fields, hiking trails and biking lanes are areas of concern. Youth and active adults engage in intensive exercise that increases breathing rates and increases the total amount of pollution inhaled. Children are at risk even if they are

not intensively exercising because they respire more frequently than adults and their body weight is lower. They concentrate significantly more toxins per body weight than adults. The boundary of Woodland Primary School is 125 feet from the railroad. (page 28) This puts children at greater risk for inhalation and ingestion of coal and DPM toxic pollutants.

Comment Number: MBTL-HIA-00096-25

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 2.1

Comment Excerpt Text:

DISCUSSION

1. HEALTH EFFECTS OF DPM AND COAL DUST

Part A (Air Quality), Section II (Health Evaluation) considers these questions:

Question 1. What effects will coal dust, diesel exhaust from trains, ship pollutants, and emissions from vehicles, due to increased congestion, have on the health of Longview residents and sensitive populations (such as asthmatics, elderly, pregnant, smokers, those with respiratory conditions, and youth)?

Question 2. What are the short- and long-term effects of diesel exhaust and coal dust exposure?

Question 3. What neighborhoods and communities will be at the greatest risk of exposure to air pollution based on proximity, prevailing winds, and other environmental factors?

Some short-and-long term effects of diesel exhaust and coal dust exposure (PM 2.5 and PM 10) are well-delineated in the HIA. The current health status of the neighborhoods and communities at greatest risk of exposure are also clearly noted and found to be generally worse than that of Washington State as a whole.

Health data shows higher death rates from heart disease, lower respiratory diseases, most notably emphysema in Cowlitz County, particularly in the neighborhoods near the proposed MBT (Highlands and St. Helen's) than in other areas of Washington State. This translates into a greater negative effect of air pollution on the health of the population of Cowlitz County because of the higher burden of existing illness.

The DHIA omits the harmful effects of PM 2.5 on older adults in particular. Recent research has shown that the elderly are disproportionately harmed from this type of air pollution. Even a slight increase in daily PM 2.5 exposure has been shown to directly correlate with increased mortality for adults 65 and older. [Appendix III] As the HIA notes that Cowlitz County's population of adults over 65 is larger than that of Washington overall, this risk is particularly significant.

What conclusions are drawn are found buried in the Appendix. In the Appendix, the DHIA notes that in "2008 the Washington Department of Ecology ranked DPM as the highest priority toxic air pollutant based on cancer potency and emission levels." Although the HIA notes significant negative health impacts of both diesel exhaust and coal dust exposure to the residents of Cowlitz County, particularly those closest to the terminal, it does not acknowledge that these effects cannot be mitigated. Because the greatest negative health impacts would occur in vulnerable communities and to those burdened by illness, pregnant women, infants and children, and those over 65 years, this project does not meet the standards of "Equity" from the International Association of Impact Assessment. [Appendix I]

Furthermore, the DHIA does not discuss the adverse effects of exposure to black carbon (BC), a component of

diesel particulate matter, smaller than PM 2.5, and more dangerous. There is evidence that previous estimates of the effects of PM 2.5 on health may have been underestimated as new methods of measurement have been developed to evaluate the black carbon content. Of most concern, evidence of neurodevelopmental and neurodegenerative effects of exposure to black carbon and PM2.5 and the toxicants they carry into the blood stream have been left out of the analysis. Thus, important health impacts on children, adults, and the elderly have been left out of the draft HIA.

Asthma rates in Cowlitz County are very high. The DHIA does not analyze the potential for increased asthma rates and exacerbation resulting from exposure to fine particulate matter and ground level ozone. High asthma hospitalization rates are noted in the Table 8 but there is no discussion. Asthma should be added and evaluated as a health impact along with significant increases in hospitalizations for respiratory infections, COPD and bronchiectasis.

The impact to other communities along the rail lines or shipping routes is also minimized or excluded and what information is provided is only found in the Appendix.

The DHIA also does not acknowledge the multiple cumulative and synergistic effects of DPM and coal dust.

For further detail see pages 6-15, Oregon and Washington Physicians for Social Responsibility Comments on Draft Environmental Impact Statement for Millennium Bulk Terminals Longview [Appendix II]

See also, from the Journal of the American Medical Association, a summary of the most current evidence for premature death associated with low level air pollution. (Appendix III)

Comment Number: MBTL-HIA-00096-26

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 4

Comment Excerpt Text:

2. IMPACTS ON VULNERABLE POPULATIONS

Woven into Section II (Health Evaluation) and Appendix I (Air Quality) is a detailed analysis of the baseline health of the local community and projected disproportionate impacts on vulnerable communities, including persons with underlying health conditions, and vulnerabilities associated with low-income, race, and other demographic factors. It includes a discussion of the social determinants of health as they are manifest in the local community.

The document includes some additional analysis on the disproportionate impact of increased rail traffic on vulnerable and low-income communities. Disproportionate impacts of rail and marine accidents, toxic spills, and potential contamination of food and drinking water are not discussed. This is a violation of the principle of “Equity” established by the International Association of Impact Assessment. [Appendix I]

For further detail see pages 40-41, Oregon and Washington Physicians for Social Responsibility Comments on Draft Environmental Impact Statement for Millennium Bulk Terminals Longview. [Appendix II]

Comment Number: MBTL-HIA-00096-27

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 2

Comment Excerpt Text:

3. AIR QUALITY MONITORING

The discussion of air pollutant effects in Section II (Health Evaluation) and again in Appendix I (Air Quality) are based on baseline monitoring data in Longview from 2013 and 2016. The source of this monitoring data is from a single monitor stationed 1.5 miles from the project site. [4, page 689] This is not only an inadequate assessment of baseline air quality in the area, but is also inadequate to assess any degradation in air quality due to the coal export terminal, should MBT be allowed to proceed. Also lacking in the DHIA is information about wind speed, direction and impacts of inversions on air quality near the terminal and in Cowlitz County.

See page 11 of Oregon and Washington Physicians for Social Responsibility Comments on Draft Environmental Impact Statement for Millennium Bulk Terminals Longview. [Appendix II]

Comment Number: MBTL-HIA-00096-28

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 3

Comment Excerpt Text:

4. ECONOMIC PROSPERITY

Part B (Economic Health, Prosperity and Resiliency), Section II (Health Evaluation) takes up these questions:

Question 4. How will the project affect the number and types of jobs in Longview in the long-term and how does that affect the health of those employed and the community as a whole? How does that compare to alternative site uses for the MBTL site?

Question 5. How will the other aspects of the local economy be affected? Will the impact on tourism, the service economy, and the river economy increase prosperity?

Question 6. How will this affect local taxes and will that affect health?

Question 7. What economic, social, or environmental accountability does Millennium have to the community if they close or leave the community? Does that accountability remain if there is a bankruptcy?

The analysis focuses on the positive health effects that would result from projected economic growth from the coal terminal. This is an important part of a comprehensive health impact assessment. The analysis here, and in DHIA Appendix I, is detailed, includes wage multipliers, effects on tax base, discussion of alternative uses of the site for the proposed coal terminal and the consequences to the community should the project terminate prematurely.

Missing from the discussion is any analysis of the economic costs of negative health impacts such as loss of work and school days, costs of medical care, and years of potential life lost. Net effects of the project on economic prosperity cannot be predicted without further analysis, as the report itself admits: "A sophisticated economic analysis would be necessary to draw more solid conclusions on the positive health impacts of a project from a perspective of job creation and site use." [1, page 16]

Furthermore, estimates for job creation, direct and indirect (on which estimates of economic growth are predicated) derive solely from the estimates provided by MBT itself with no independent assessment of the accuracy of these estimates.

The DHIA clearly states that closure of the plant would have serious economic consequences for both MBT's employees as well as the community at large. It notes that there are some ways to mitigate this such as The Worker Adjustment and Retraining Notification Act (WARN). There are notable exceptions to requiring employers to comply with this including closure due to unforeseen circumstances. The DHIA notes that another way to mitigate a closure would be to require that MBT comply with the International Finance Corporation Performance Standard of having a "Retrenchment Plan" in place, which includes provisions for managing lay-offs in the event of downsizing or closure. MBT currently has no plan to develop a "Retrenchment Plan" and there is no current requirement for MBT to do this.

If MBT closes its operations, the site would require major environmental cleanup efforts to make it usable for other industrial or non-industrial uses. This would be a significant negative impact on the community not only in loss of jobs but in the cost of making the site usable by other companies. The DHIA notes that the Model Toxics Control Act does not include coal as a toxic substance. It states that that they cannot offer an assessment of whether the MBT site cleanup would trigger the Model Toxics Control Act, but imply that it would be very unlikely.

It is remarkable that the DHIA does not address the issue of the likelihood of closure, given the efforts of most countries, especially China, to significantly reduce the use of coal to improve air quality and limit global warming. The DHIA implies but does not clearly state that Millennium could not and would not be held accountable for the economic, emotional, and physical impacts to their workers or for the broader impact to the community. Further, it implies that there is no accountability for its environmental impact.

Furthermore, recent news from Newcastle, Australia demonstrates the massive decline of coal export markets and financial risks associated with over-reliance on coal by the Port of Newcastle. See "World's biggest coal export port announces shift away from coal" published in the Guardian on January 5, 2018.

Comment Number: MBTL-HIA-00096-29

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 4.1

Comment Excerpt Text:

5. GLOBAL CLIMATE CHANGE

Part C (Community Health), Section II (Health Evaluation) responds briefly to the following question:

Question 8: What are the potential effects of climate change on Cowlitz County residents, their health, and the linkage to increased carbon dioxide (CO₂) from this project?

MBT plans to export 44 million metric tons from Longview each year. 44 million metric tons of coal yields about 90 million metric tons of carbon dioxide once it is burned. This is roughly on par with Washington State's current total annual carbon dioxide emissions. (page 20).

Appendix 2 (Climate Change) in the DHIA includes a more detailed discussion of global warming effects on local

weather and environment and the potential adverse effects on Cowlitz County residents including: heat-related illness, respiratory disease, vector-borne illness, water- and food-borne disease, and extreme weather events and references the expected disproportional impacts on vulnerable communities.

In Appendix 2, net greenhouse gas (GHG) emissions from the proposed terminal are estimated based on various policy scenarios. The calculation of net increase in GHG emissions assumes that the same coal, if not transported through Longview, would still be extracted and distributed to international markets. This assumption is not supported by evidence.

While the DHIA states, “Today’s decisions concerning GHG emissions and reductions in the short term will determine the severity of climate events to come in the second half of the 21st century and beyond” the document then concludes: “While these potential emissions would contribute to GHG concentrations in the atmosphere, it would be difficult to attribute these particular emissions [from MBT] to a future projected degree of global warming, resulting climate effects, and resulting health effects.” [1, page 54]

Since the proportional contribution of any particular project to world-wide GHG emissions is never certain, the implication is that the impact on worldwide GHG emissions of any particular project cannot be taken into consideration. This represents a failure to apply reasonable and informed judgment in the face of uncertainty. It is a violation of the Precautionary Principle in public health practice. Additionally, it flies in the face of Washington state laws and policies which require reductions in GHG emissions to protect our climate and health.

For further assessment on the impact of global climate change see pages 2-6, Oregon and Washington Physicians for Social Responsibility Comments on Draft Environmental Impact Statement for Millennium Bulk Terminals. [Appendix II]

Comment Number: MBTL-HIA-00096-3

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

In addition, although authors of the DHIA state their intent to seek community input, the timing of the release of the DHIA over the busiest holiday season and the short length of time allowed for comments (December 20, 2017-January 5, 2018) did not permit gathering input from affected communities or those most vulnerable to negative impacts. This is a violation of the value of democracy from the International Association of Impact Assessment [6] emphasizing the right of people to participate in the formulation and decisions of proposals that affect their life, both directly and through elected decision makers.

Comment Number: MBTL-HIA-00096-30

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 5.1

Comment Excerpt Text:

6. RAIL CONGESTION AND NOISE POLLUTION

Part D (Personal Health), Section I considers these questions:

Question 9. What will be the health effects on the community in regards to emergency response times, commute

times, and traffic congestion?

Question 10. What will be the effect be on recreational and active transportation activities in Cowlitz County, such as walking, biking, and taking the bus?

Question 11. What will be the health effects of noise and vibration?

The FEIS concluded that increased rail traffic would cause a significant increase in area traffic congestion and delays in emergency response time. [4, Section 5.3.8] The FEIS further notes that if all suggested improvements to at-grade crossings are made, the problem of traffic congestion could be adequately mitigated. However, the County has not made these improvements a condition for project approval. [3, page 20] The HIA fails to address and resolve this issue.

As noted earlier, effects on recreation and transportation activities in the area were not investigated. Recreational opportunities and active transportation are important to creation of a healthy and economically thriving community. There is considerable evidence in public health and community planning literature that improved access to walking and bicycling to and from work and school improves the health of the community. If diesel emissions and coal dust foul the air and train noise is annoying or disturbing, it is less likely that adults and children will play outside or engage in walking, biking and recreational activities.

The DHIA described many of the adverse health impacts of noise exposure, but emphasized these health impacts occurred after many years of exposure even while stating that noise can trigger the body's stress response, cause sleep disturbance and increase blood pressure. Work and school performance can be adversely impacted as well. These responses to noise are short-term impacts and can have rapid adverse health impacts especially in children, the elderly, persons already under stress, and persons who are ill. Children develop better concentration skills in a quiet environment, children who are exposed to noise pollution while learning are more likely to experience reading delays, and children who spend time in noisier areas have higher resting blood pressure and higher stress levels.

The DHIA notes that noise is measured in different ways, but did not consider that "averaging noise levels fails to take into account the effect of individual events, with locomotive horns and train pass-bys being perfect examples. ...people do not experience noise as averages - they experience noise as events." For further discussion of this point and its relevance to estimating adverse health impacts of noise exposure, see the comments of Dr. Alice Suter on the NEPA DEIS submitted on November 28, 2016. [Appendix IV]

The DHIA acknowledges that "noise health risks exist for anyone in the county or along the rail line elsewhere beyond the corridor studied in the FEIS." The DHIA focuses on heart disease and found agreement with scientific studies that for each 10 dB increase in noise there is a 6% to 8% increase in population risk for adverse heart health outcomes. The DHIA found that risk for high blood pressure, heart attack and heart disease increases in a meaningful way between 52 decibels and 75 decibels, and also referenced the World Health Organization's 50 decibel nighttime threshold for high blood pressure and heart attack impacts.

The draft HIA includes a map of contours of noise estimates from the FEIS that included data from noise monitoring stations and included the 55 Ldn (average day night sound level) rail noise contour that was not included in the FEIS. But the DHIA did not specifically connect the data on increased health risks with increases in noise levels within this rail noise contour and did not point out that the 55 Ldn contour includes a large residential area adjacent to the proposed MBT site. This is a serious omission. Nevertheless, looking at 5 years of mortality data, the DHIA found that the Cowlitz County death rate from heart disease is 7% higher than the state, and concluded that Cowlitz County and the neighborhoods that would be most impacted by increased noise are already experiencing higher than average rates of disease and increased noise will increase those rates further.

Comment Number: MBTL-HIA-00096-31

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 5.2

Comment Excerpt Text:

7. FOOD CONTAMINATION

Part D (Personal Health), Section I considers these questions:

Question 12. Will fish in the Columbia River be contaminated and if so, what will be the health impacts on people who eat those fish?

Question 15. Will there be any health effects on residents by consuming food grown on local farmland or in residential gardens?

The DHIA concludes that some accumulation of PAH in shellfish is possible, but the impact of ingestion is minimal because the harvesting of shellfish in the Columbia River is prohibited. This conclusion understates risk to tribal communities.

The combined and cumulative harm that could come to fisheries from coal transport and export along Northwest waterways such as the Columbia River must be more fully considered. We object to any project that causes significant impacts to tribal fishing and treaty rights.

The following words are taken from a prepared statement of the Yakama Nation given November 18, 2013, at an Oregon Physicians for Social Responsibility press conference: “First and foremost, given the direct and indirect impacts that the coal export proposals would have on the Yakama People and our Treaty-reserved rights and resources, Yakama Nation is fully opposed to all coal export proposals, including the Millennium Bulk Terminal project at the Port of Longview. As such, Yakama Nation continues to ask all permitting agencies, including the U.S. Army Corps of Engineers and other state and local authorities to deny any and all permits related to these proposals. To be clear, Yakama Nation will not negotiate nor agree to so-called mitigation for any violations of its Treaty- reserved rights.”

For further detail see page 40, Oregon and Washington Physicians for Social Responsibility Comments on Draft Environmental Impact Statement for Millennium Bulk Terminals. [Appendix II]

The DHIA further concludes that coal dust contamination, along with its associated toxins and heavy metals, will have minimal effects on local home and commercial food crops. This conclusion is based on modeling of coal dust emissions in the FEIS [4] that significantly underestimates emissions based on actual measured emissions at coal terminals in other communities. The conclusion is therefore not warranted. Furthermore, the potential for coal dust including contaminants for which there is no known safe level of exposure (mercury, arsenic, lead, cadmium) must be more fully considered before discounting impacts on food grown on farms and in home gardens. As previously noted, the “Assessment of Health and Safety Implications of Coal Transport through Oakland” states “these substances are of high health concern if inhaled or ingested and are known to cause cancer, fetal defects and neurological damage, even at very low doses. There are no known safe levels of exposure to these toxics.” [Appendix V]

For further detail see pages 20 - 27, Oregon and Washington Physicians for Social Responsibility Comments on Draft Environmental Impact Statement for Millennium Bulk Terminals. [Appendix II]

Comment Number: MBTL-HIA-00096-32

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 5.4

Comment Excerpt Text:

8. WATER QUALITY

Part D (Personal Health)

Question 14. Will there be health effects related to changes in water quality?

The report concludes that there is no evidence to support substantial contamination of groundwater that is used by the local community for drinking water. This assertion was made with inadequate evidence or analysis to support it. Studies have found gasoline, benzene, arsenic and other contaminants in local ground water and aquifers [Appendix II, pages 38-39]. If these earlier contaminants penetrated shallow and deep aquifers, why would one assume that contaminants related to the construction and operation of the MBT could not penetrate as well? Where is the description of potential health impacts that could occur should the deep aquifer (source of drinking water for residents of Longview and other communities) be contaminated by industrial and toxic pollutants? Furthermore, this conclusion of no contamination is based on coal dust emissions that are underestimated. Oil spills are not considered, as well.

Comment Number: MBTL-HIA-00096-33

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 5.3

Comment Excerpt Text:

9. HEALTH EFFECTS OF TOPPER AGENTS (SURFACTANTS)

Part D (Personal Health), Section I (Health Evaluation) considers the following question:

Question 13. What are the health impacts of topper agents on workers or residents?

The section notes that “to the extent that topper agents reduce community exposure to coal dust, the use of these toppers will be beneficial for public health.” [1, page 26]

However, even with these agents applied, coal dust is lost in transit at high rates. [7] In addition, it is unclear whether these topper agents will be used on the coal pile at the MBT site to keep the coal dust from blowing in the wind. Even if it is not re-applied at the terminal, topper will be in the coal dust, some of which will blow in and around the project site and adjacent neighborhoods.

Investigation did not reveal any potential for significant harm from toppers or surfactants, but the section concludes that “The review performed by DOH was limited. Some ingredients were proprietary or were otherwise not sufficiently identified to be reviewed independently for potential health impacts. In addition, MSDSs and toxicological databases show very little testing data for some of these ingredients.” [1, page 26]

The conclusion that these agents present no potential harm, given the weakness of the evidence, is not warranted.

The potential toxicity must be elucidated, regardless of proprietary constituents. The Precautionary Principle should be invoked in the event that no further information on constituents is available.

Comment Number: MBTL-HIA-00096-34

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

10. PAHs, HEAVY METALS, AND OTHER TOXINS

The DHIA focuses its analysis on the effects of exposure to DPM, apparently because of the greater adverse health impacts of DPM. In narrowing the scope of the assessment to DPM, the health effects of exposure to toxins in coal and coal dust are largely excluded as are the effects of polycyclic aromatic hydrocarbons (PAHs), which are by-products of diesel exhaust. PAHs include formaldehyde, benzene, and 1,3-butadiene, which have documented carcinogenic and other negative health effects. Coal and coal dust contain neurotoxins and carcinogens, including lead, mercury and arsenic. [See Appendix V] The potential health effects of these toxins are not considered in the DHIA.

For further detail on potential for negative health impacts see pages 14-23, Oregon and Washington Physicians for Social Responsibility Comments on Draft Environmental Impact Statement for Millennium Bulk Terminals Longview. [Appendix II]

Comment Number: MBTL-HIA-00096-35

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

11. OCCUPATIONAL HEALTH AND SAFETY

The individuals who will face the most substantial increase in risk from accidents and exposure to DPM, coal dust, and other toxic pollutants will be the workers at the terminal itself. Given the increased likelihood of development of chronic lung disease from this exposure, will Millennium provide protection from coal dust and DPM and other particulate matter inhalation? Will Millennium monitor workers' lung function at baseline and at recommended intervals?

The DHIA notes this potential impact on health, but dismisses the concern with a single statement: "The DHIA Millennium Bulk Terminals-Longview has stated that the occupational health and safety of workers employed by the proposed project will be managed in accordance with the requirements of WISHA." (Washington Industrial Safety and Health Act) [1, page 14] As in the DEIS, "there is no mention of the effects of noise from the construction project on the workers themselves, who will be exposed to various sources, such as compressors, pneumatic tools, and train sources. Will Millennium have a hearing conservation program? Will that program meet the requirements of Washington's state plan for OSHA? Will the railroad workers and workers at the site be provided with sufficient protection from the extensive durations of high-level noise emitted by the horn?" [Appendix IV]

Due diligence requires at a minimum the examination of the health and safety record of MBT by independent

experts.

Comment Number: MBTL-HIA-00096-36

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

12. MARINE ACCIDENTS AND TOXIC SPILLS

When fully operational, marine traffic on the Columbia River will increase by 1680 transits of ocean-going vessels per year. The FEIS estimates that this will result in 2.8 additional vessel mishaps per year of variable severity with associated potential for property damage, loss of life, toxic spills and fires. [4, section 5.4] The FEIS further concludes that there is no way to mitigate this risk.

The DHIA does not take into consideration the health impacts of this risk. Furthermore, the potential negative economic impact of marine accidents is not incorporated into the analysis of the project's effects on the region's economic prosperity.

MBT argues that it cannot be held responsible for marine activities conducted by third parties [3, section 9.14]. This, however, does not justify omission of the risks of marine accidents from a comprehensive HIA. This is a violation of the minimum standards for an HIA, which includes the element: "HIA systematically considers the full range of potential impacts of the proposal on health determinants, health status, and health equity." [2, page 5]

Comment Number: MBTL-HIA-00096-37

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

13. RAIL ACCIDENTS AND TOXIC SPILLS

When fully operational, rail traffic in Washington and Oregon will increase by 5840 transits of loaded and unloaded trains per year. The FEIS notes that existing rail lines will be operating over capacity and estimates that this traffic will result in at least 11 additional rail mishaps per year of variable severity with associated potential for property damage, loss of life, toxic spills and fires. [4, section 5.2-8] Not all of this additional risk can be mitigated with improvements in existing rail lines.

The DHIA does not take into consideration the health impacts of this risk. Specifically, it fails to describe the health impacts and potential injury from rail accidents, inhalation and contamination from spills, and risks related to fires resulting from the rail mishaps that the FEIS acknowledges will occur.

Again, MBT argues that it cannot be held responsible for rail activities conducted by third parties. This, however, does not justify omission of the risks of rail accidents from a comprehensive HIA, which is a violation of minimum standards for an HIA.

Comment Number: MBTL-HIA-00096-38
Commenter: Regna Merritt
Commenter Type: Organization
Classification: Technical

Comment Excerpt Text:

14. UP- AND DOWNSTREAM COMMUNITIES

The geographic scope of the DHIA is limited to portions of Cowlitz County. However, upstream communities in Utah, Colorado, Wyoming, Montana, Idaho, and Oregon will involuntarily assume health and safety risks from the increase in rail traffic and coal transport. Likewise, downstream communities along the Columbia River in Washington and Oregon will involuntarily assume risks associated with increased marine traffic. Furthermore, these communities will assume those risks without accruing any of the compensational benefits of the project.

Multnomah County (Portland) evaluated risks to its community from increased rail transport of coal and concluded that the rail traffic would impose additional health risks on their community and that those who would be most affected already bore a higher burden of disease related, in particular, to DPM exposure. [5]

These additional risks would be the direct result of the MBT coal transport facility in Longview. But many, if not most, of these communities do not have the resources to conduct independent HIAs. It is not known how many of these affected communities are even aware of the potential impacts on their communities from this proposed project. This is a violation of two elements of minimum standards for an HIA:

“HIA involves and engages stakeholders affected by the proposal, particularly vulnerable populations.”

“HIA systematically considers the full range of potential impacts of the proposal on health determinants, health status, and health equity.” [2, page 5]

The disenfranchisement of up- and downstream communities is also a violation of the following principle set forth by the International Association of Impact Assessment [Appendix I]:

“Democracy—emphasizing the right of people to participate in the formulation and decisions of proposals that affect their lives, both directly and through elected decision-makers. In adhering to this value, the HIA method should involve and engage the public, and inform and influence decision-makers. A distinction should be made between those who take risks voluntarily and those who are exposed to risks involuntarily.”

Comment Number: MBTL-HIA-00096-4
Commenter: Regna Merritt
Commenter Type: Organization
Classification: Technical

Comment Excerpt Text:

The stated goal of the HIA is to “provide draft recommendations based on assessment results and/or the SEPA Environmental Impact Statement results; work with interested stakeholders to review and solicit input on recommendations; and approve final set of recommendations for inclusion in the final HIA report.” [1] These recommendations have not yet been formulated. PSR strongly encourages that this process be undertaken in a transparent and inclusive manner, in accordance with the principles and values delineated in both “Minimum

Elements and Practice Standards for Health Impact Assessment” [2] and “Health Impact Assessment: A Guide for Practice.” [6]

Comment Number: MBTL-HIA-00096-5

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

The DHIA states that this HIA “... does not play a role in the decision to issue permits for a development project.” We disagree. We believe that principles and values included in “Health Impact Assessment: A Guide for Practice” should be followed. This document states “the HIA method should involve and engage the public, and inform and influence decision-makers.” [See Appendix I] There are many permit decisions that have yet to be decided and we expect that this HIA can and should inform and influence decision-makers.

Comment Number: MBTL-HIA-00096-6

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

Recommendations should adhere to the standards outlined in the “Minimum Elements and Practice Standards for Health Impact Assessment” [2]:

6. HIA provides recommendations, as needed, on feasible and effective actions to promote the positive health impacts and mitigate the negative health impacts of the decision, identifying, where appropriate, alternatives or modifications to the proposal.

Note that many negative impacts of this project cannot be mitigated (FEIS [4] and “Findings of Fact, Conclusions of Law and Decision Denying Permit regarding Shorelines Permit Application of MBT [3].) The HIA Steering Committee should identify denial of the MBT project as an alternative to the proposal.

Comment Number: MBTL-HIA-00096-7

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

8. HIA proposes indicators, actions, and responsible parties, where indicated, for a plan to monitor the implementation of recommendations, as well as health effects and outcomes of the proposal.

Monitoring will require significant financial resources and, minimally, a large investment in air quality monitoring, noise monitoring and evaluation. We question the county’s ability to meet this commitment given the fact that MBT has not even provided the County with resources adequate to complete the analysis for this DHIA.

Specifically, if the MBT proposal were to be implemented, the City of Longview and Cowlitz County “would need to assure vigilance in monitoring, operation, oversight, and prompt remediation to ensure protection of workers, residents, and the environment. This would require adequate funding and active engagement throughout the duration of the facility’s operations. The level of oversight required, given the myriad opportunities for violation of safety and environmental protection, would be very difficult to enforce and is unlikely a reliable

strategy.” [Appendix V]

Comment Number: MBTL-HIA-00096-8

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Other Sections: 2.1

Comment Excerpt Text:

SUMMARY FINDINGS

1. HEALTH EFFECTS OF DIESEL PARTICULATE MATTER (DPM) AND COAL DUST:

Coal dust and diesel particulate matter (DPM) exposures lead to death, hospitalization from heart and lung disease, asthma attacks, pneumonia, decline in lung function, asthma in children, plus growing evidence of stroke, Type 2 diabetes, neurological and cognitive impairment, cancer and pre-term and low-birth weight babies. In the Appendix, the DHIA acknowledges that in “2008 the Washington Department of Ecology ranked DPM as the highest priority toxic air pollutant based on cancer potency and emission levels.”

The DHIA provides data that indicates this project will lead to a higher burden of illness and increased deaths from exposure to DPM and coal dust for the residents of Cowlitz County.

However, the DHIA minimizes the negative health impacts and the fact that those with underlying illnesses are most negatively impacted by poor air quality. It also fails to conclude that the impacts of these air pollutants cannot be mitigated and that these air pollutants most affect vulnerable communities already burdened by significant health inequities.

Comment Number: MBTL-HIA-00096-9

Commenter: Regna Merritt

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

2. IMPACTS ON VULNERABLE POPULATIONS: The DHIA includes an analysis of the disproportionately negative impact the project would have on vulnerable populations. These impacts are discussed principally in relationship to air and noise pollution and neglect other negative health impacts. However, the DHIA demonstrates that higher noise exposure impacts low income areas in Cowlitz County. Noise is associated with higher rates of high blood pressure, heart attack and heart disease. Cowlitz County and the neighborhoods that would be most impacted by increased noise already experience higher than average rates of these diseases and that increased noise will contribute to further increase in these rates. (page 21)

The analysis reveals that those persons most vulnerable to the negative effects of air pollution are also those who are most exposed to air pollutants, which will have the unfortunate effect of increasing health disparities, particularly in low-income communities. Cowlitz County consistently ranks near the bottom of Washington counties in health indicators. (page 13) The population of Cowlitz County already has a higher burden of illness, specifically higher rates of heart disease, lung disease, diabetes, and cancer, and will therefore be more likely to be harmed by air and noise pollution.

The DHIA fails to consider the many direct and indirect adverse impacts on the health and safety of tribal

members and the Treaty-reserved rights and resources of Tribal Nations.

Comment Number: MBTL-HIA-00097-1

Commenter: C. Persons

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

These comments will offer suggestions on how to improve the draft HIA in hopes that the final HIA will be a more effective document.

According to the draft HIA, the goals of the HIA are to create an assessment of the health effects of the proposed Millennium project during its construction, operations, and demise in order to inform the Applicant, government agencies, and citizens. To do that the draft HIA answers fifteen questions created by the HIA Steering Committee. These questions are excellent but too narrow in scope, both in terms of public health concerns and geography.

The draft HIA is an opportunity to gather a wide range of information and opinion to use in creating public policy. In this regard the draft HIA is disappointing because, despite stating that it will incorporate sources of information provided by members of the Steering Committee and input from community members, the draft HIA relies almost entirely on the Final Environmental Impact Statement (FEIS) and its sources of information. There is no sign in the draft HIA of the well-documented input from the five community focus groups that were held, nor is it clear which community sectors or groups were engaged. Some of the new information the draft HIA does provide is excellent, while other new information is too general to offer reliable insights. Finally, some recent or forthcoming studies should be considered in the process of creating the final HIA.

Most important, the draft HIA states that it will follow the latest standards and steps for Health Impact Assessments (Bhatia et. al. 2014), but it does not. First, the draft HIA includes no direct recommendations to improve or mitigate the project. Second, the draft HIA includes no proposals for improving the monitoring of the proposed project. Finally, the draft HIA does not incorporate direct input from community groups or those parts of the population most affected by the proposed project - residents along the coal train railways; Longview residents living closest to the proposed coal terminal in the Highlands, St. Helens, and Lexington neighborhoods and along the northern border of the proposed terminal; and students, their parents, and staff in Woodland Primary School.

Comment Number: MBTL-HIA-00097-10

Commenter: C. Persons

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

Conclusion:

In order to create a full picture and exercise its advisory role in protecting the public health, the final HIA should broaden its scope and include recommendations for mitigation and monitoring. To do this well, in addition to engaging those residents most negatively affected by the proposed coal terminal, Cowlitz County and the Steering Committee must make a strong effort to engage colleges, universities, non-profits, and community groups to gather the information and value-laden opinions that will be necessary for substantive, well-considered recommendations and community support for those recommendations.

This will mean finding more funding and more time for work, perhaps more than a year, but the results will be worthwhile. Since the denied permits are still in the judicial appeal process, time for a more thorough HIA is available. Time will also tell whether micro-particle emissions from proposed industrial projects with proposed increased vessel traffic on the Columbia River, and diesel truck traffic in Longview, such as the NWIW Methanol Plant in Kalama and especially the PCF liquid fertilizer plant in the Mint Industrial Farm, should be considered when calculating background levels of emissions.

Instead of Cowlitz County producing a final HIA with a rushed process that “jumped through the hoops” but did not live up to the potential of a high-quality HIA process, Willapa Hills Audubon Society hopes that the final HIA will be a document that shows the County’s true commitment to protecting the health of county and regional residents.

Comment Number: MBTL-HIA-00097-11

Commenter: C. Persons

Commenter Type: Organization

Classification: Technical

Other Sections: 5.1

Comment Excerpt Text:

- The draft HIA concludes that elevated noise and vibration from 16 additional trains per day will negatively affect the health of residents living close to the coal train tracks, especially those near crossings. The DEIS stated the Millennium would create and fund a “quiet zone” in Longview, but there was no legal way to enforce this. However, this is an important health effect, and if local and state health agencies do not ask for this mitigation, it will not happen. The HIA should recommend that quiet zones be created for all crossings for residents in Cowlitz County, Washington State, and our region if the increased noise from an additional unit coal trains per day will create adverse health effects.

Comment Number: MBTL-HIA-00097-12

Commenter: C. Persons

Commenter Type: Organization

Classification: Technical

Other Sections: 4.1

Comment Excerpt Text:

- The draft HIA mentions that proposed climate change mitigation in the FEIS is based on the one of four modeled scenarios that now no longer exists, the International and U.S. Energy Policy scenario. The Trump administration repealed the 2015 Clean Power Plan in October 2017. The HIA should recommend that climate change mitigation be based on the No Clean Power Plan scenario, which will double the climate change mitigation requirements as they will henceforth be based on Net Annual Emissions in 2028 of 3.76 million metric tons of CO₂e and Total Net Emissions, 2018-2018 of 51.25 million metric tons of CO₂e equivalents.

Comment Number: MBTL-HIA-00097-14

Commenter: C. Persons

Commenter Type: Organization

Classification: Technical

Other Sections: 5.1

Comment Excerpt Text:

- In addition, the monitoring for noise proposed in the FEIS is for only two fence-line residences with no monitoring near coal route rail tracks. The final HIA should recommend adding noise monitors along tracks in the Highlands, Lexington and St. Helens’ neighborhoods, at Woodland Primary School, and at other points along the coal rail routes where residents are within 150 feet of the tracks. This monitoring will be necessary to ensure that

the quiet zones created at railroad crossings are effective.

- If the final HIA makes any recommendations for mitigating the health effects of the Millennium project, it should also include recommendations for how best to monitor the effectiveness of those modifications.

Comment Number: MBTL-HIA-00097-2

Commenter: C. Persons

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

Narrowness of scope:

In limiting the scope of the draft HIA, the Steering Committee made its own task easier, but it did a disservice to Millennium, the residents of both the county and the region, and participating agencies. A wider review would put the health effects of the proposed Millennium project in context for all target audiences.

An HIA is an advisory document and has no legal requirement to consider only a particular scope of concerns or geographical area. The FEIS and Corps of Engineers' NEPA for the Millennium Coal Terminal in Longview were widely criticized for their narrow scope, but the HIA has the opportunity to go beyond that narrow focus and find information to clear up questions raised in public comments by residents from across the state and region. It can also recommend mitigation actions not included in the FEIS.

Willapa Hills Audubon Society strongly suggests that the final HIA should address both a broader scope of health and economic factors and a wider geographical area. Perhaps the narrow scope reflects the lack of funding, or the funding source, Millennium Bulk Terminals. If so, we suggest that other funding and funders be found before creation of the final HIA.

Comment Number: MBTL-HIA-00097-3

Commenter: C. Persons

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

Here are a few of the questions that should be answered in the HIA:

- What plans can be put into place to prevent and respond to increased risk of rail accidents from the project and rail coal spills in Cowlitz County and across the state?

The draft HIA lost a golden opportunity by not including any research about safety measures for rail accident prevention and response. The FEIS's treatment of this problem is too general and vague to inspire public confidence, but the final HIA can and should repair this inadequacy.

- How will commercial and recreational fishing in the Columbia River be affected by impacts on fish, including listed species like eulachon and salmon?

Commercial fishing is a proud occupation and source of healthy food for both Native and non-Native residents of our county and region. Recreational fishing is widely considered to be a form of relaxation that contributes to

better mental health and household food. Both, commercial and recreational fishing contribute to the region's economy. The HIA should document the effects of the proposed project on fishing in Cowlitz County and the region.

- How will residents across the Columbia River in Oregon be affected by the proposed project?

This analysis should include effects on access to essential goods and services, especially emergency medical care, that will be affected by increased traffic and delays at vehicle/rail crossings.

- How will residents in the entire Washington State be affected along the proposed rail routes for the coal trains?

While the draft HIA briefly discusses possible effects of increased coal dust and diesel emissions along coal rail routes in other communities in Washington, the final HIA should include analysis throughout Washington State of other effects along the coal train rail routes, such as increased traffic and delays at rail/vehicle crossings, especially for emergency vehicles; health effects of noise from increased train traffic; local training and equipment for emergency response to coal train accidents and derailments; and whatever increased health effects might be borne by low-income or other vulnerable populations that live, work, or study close to the rail lines.

- How will the proposed Millennium project affect the health of people outside Washington State?

We are concerned about the health of residents of Idaho, Utah, Montana, and Wyoming, not just people in Oregon and Washington. How will residents along all the proposed coal train rail routes from the mines in the Powder River Basin and Utah to Washington State be affected by increased emissions, noise, and traffic delays? How will increased demand for coal mining negatively affect ranching, other agriculture, and residential well water near the mines?

Comment Number: MBTL-HIA-00097-4

Commenter: C. Persons

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

New or clarified information:

The draft HIA in general summarizes information and conclusions reached in the FEIS, with some notable exceptions:

- Information about the health indicators of residents of the Highlands, St. Helens and Lexington neighborhoods in Longview. This information provides detail not present in the FEIS, and shows high levels of poor health in those neighborhoods. The low population numbers in these neighborhoods lead to few statistically significant differences between those populations and the general Cowlitz County population, but the raw differences are so striking that the information is convincing.

- Analysis outside Longview but along coal train corridors within Cowlitz County of 10PM and 2.5PM emission impacts from diesel emissions and coal dust. It is good for the public to learn from their local and state agencies that few residents would be adversely affected (only part of the Highlands Neighborhood in Longview and the Woodland Primary School), that the increase in cancers for these residents would be only 1%, and that emissions would be just at Washington State's maximum standard for diesel emissions of 10 new cancers per million people.

- Clarification that residents within 50 to 100 feet of rail tracks would have “nuisance” levels of coal dust on window sills and outside furniture, but that state and federal regulations do not exist for this kind of problem. Bigger coal particles are not regulated, only the micro-level particles.

- Socioeconomic information from Newcastle, Australia, where there are apparently many coal storage piles and rail-to-ship transport systems. This is in the form of a chart (Table 3) that compares Newcastle to Cowlitz County. While no direct conclusions are drawn in the text of the draft HIA, the chart seems to attempt to make the case that coal storage, handling and export have no adverse economic effects and perhaps some economic stimulation in Newcastle. But the comparison of Newcastle and Longview is so superficial that it is hard to draw any firm conclusions. There just is not enough situational context.

For example, what proportion of Newcastle’s industrial employment is in coal transportation? Are national or regional forces driving the apparent housing price and building bubble in Newton? How far is Newton from coal mines and from other major population centers? This kind of context would go a long way toward showing that Newton, a city of 150,000 in a 72-mile area, is comparable in any significant socioeconomic way to Cowlitz County, where just over 100,000 people live in an area of over 100,000 square miles.

- A screenshot of a daily pollution forecast for Newcastle with information on particle emissions (Figure 6). This graphic seems to imply that coal storage and transport in Newcastle is benign in terms of health (small particles of 2.5PM and 10PM), if perhaps buildings are coated with soot from larger particles above 10PM. However, so much information is left out about how coal is transported and stored in Newcastle that it is not clear that in Cowlitz County the health effects would be the same. For example, in Newcastle are similar or more stringent diesel engine emission standards in place as in Cowlitz County? Are similar or different measures required for coal dust reduction for railcars, coal storage piles, and vessel loading?

Newcastle’s experience with coal transportation and storage could help evaluate the long-term health effects of the proposed Millennium project and the effectiveness of different mitigation measures for diesel engine emissions and coal dust. By not delving into the situation behind the emissions forecast in any detail, the draft HIA loses that opportunity AND makes moot any comparison of Newcastle with Cowlitz County in terms of health effects.

Comment Number: MBTL-HIA-00097-5

Commenter: C. Persons

Commenter Type: Organization

Classification: Technical

Other Sections: 2.1

Comment Excerpt Text:

Additional information and sources:

- The draft HIA is to be commended for its clear explanation that micro-particle emissions in coal dust and diesel emissions are correlated with a range of cardiovascular diseases, from asthma to heart attacks, as well as some correlation with other diseases, and that low-income people who already suffer from stress-related disease and other vulnerable parts of the population, such as infants, children, the elderly and those with chronic health conditions, will be more adversely affected by increases in micro- particles than healthy working-age adults with adequate incomes.

The draft HIA also explains that the direct evidence for these adverse health effects from coal dust is lacking in terms of controlled subject or large population studies for non-coal industry workers. To improve the lack of scientific studies, the final HIA should consider adding the evidence of a recent study—Jha and Muller 2017, which looks at the health and economic effects of coal storage and transportation on regions of the Eastern U.S.A.

Also please plan to incorporate the results of the promised BSNF study, due in 2018, of the effectiveness of covers for coal trains (Le 2016).

- The most important information that is lacking in the draft HIA is the World Health Organization's standards for micro-particle emissions (WHO 2005):

PM2.5:

10 µg/m³ annual mean

25 µg/m³ 24-hour mean

PM10:

20 µg/m³ annual mean

50 µg/m³ 24-hour mean (WHO 2005, p. 9)

Inclusion of these standards would follow the precedent in the draft HIA of referring to the WHO standards for noise levels. The WHO emission standards are basically half the federal government's NAAQS approved levels. The WHO standards are based on years of studies of disease effects from PM2.5 and PM10 particles, and factor in the practicality of both measuring emission levels and enforcing standards to protect elderly, young, and health-compromised populations who are so much more affected by increases in micro-particles. The draft HIA states that the modeled emission levels predicted for the Millennium project, while just short of the NAAQS maximums, is still unhealthy. However, reference to the WHO standards would clarify how strong the consensus is that U.S. federal standards do not adequately protect vulnerable populations who experience long-term exposure to micro-particle emissions.

Comment Number: MBTL-HIA-00097-6

Commenter: C. Persons

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

Recommendations and Monitoring:

Washington public agencies have denied five permits for the Millennium project, denials based on its effects on air quality, train noise, vehicle traffic, shoreline modification, and rail and dock accidents. These are significant effects that cannot be mitigated and that will adversely affect the health of both human and fish populations. In effect, denial of the permits sends the message that these adverse effects are so great that the project should be terminated.

Yet the draft HIA includes no recommendations or monitoring of any kind. As mentioned earlier, recommendations and monitoring and evaluation are essential steps in the 2014 standards for Health Impact Assessment (Bhatia et al 2014) that the draft HIA says it will follow. More important, by leaving out these steps, the draft HIA loses an important opportunity. Recommendations in the final HIA are not legally binding, so the Steering Committee is free to suggest whatever would help protect the health of our region's residents. Please seize this opportunity!

Comment Number: MBTL-HIA-00097-7

Commenter: C. Persons

Commenter Type: Organization

Classification: Technical

Other Sections: 4.2

Comment Excerpt Text:

Suggested recommendations:

- The draft HIA summarizes information from the FEIS on traffic delays caused during coal terminal operations. These traffic delays may mean increases in morbidity and injury for passengers in vehicles trying to access emergency health care. The final HIA should include recommendations about how to mitigate those traffic delays, including strategies for staggering coal train arrival times to coincide with low traffic periods or even recommending that operations not begin until planned rail crossing upgrades are complete.

Comment Number: MBTL-HIA-00097-8

Commenter: C. Persons

Commenter Type: Organization

Classification: Technical

Other Sections: 2.1

Comment Excerpt Text:

Suggested monitoring:

- Monitoring for micro-particle emissions as currently proposed in the FEIS is inadequate for a 23-year project which will not reach full capacity until 2028. According to the FEIS, as part of mitigation Millennium would install one fence-line particulate matter monitor and report pollution levels to the Department of Ecology for five years. However, monitoring should take place for the entire period of the project and beyond, after cleanup of the project site. A monitoring plan should also include installing more than one monitor, and it should be for all pollutants regulated by federal and state laws, not just particulate matter. The final HIA should recommend adding emissions and coal dust monitors at further distances from the coal terminal in Longview, at Woodland Primary School, and at other points along the coal rail routes where residents are within 150 feet of the tracks, and that the monitoring period extend until the company permanently closes down operations.

Comment Number: MBTL-HIA-00097-9

Commenter: C. Persons

Commenter Type: Organization

Classification: Technical

Comment Excerpt Text:

Public input into the HIA process:

One of the important goals of HIA methodology is to gather information that would otherwise not be available for public policy-making, especially the ideas and suggestions of residents most affected by the policy. The small Steering Committee and five small focus groups of the draft HIA's process do not represent well the residents who live along the coal train rail corridor and whose health and living conditions will be most affected by the proposed coal export terminal.

Unfortunately the timing of the draft HIA release, on December 20, 5 days before Christmas, the short fifteen-day comment period, and the planned all day, daytime public meetings, on Jan. 12 and Jan. 20, only a month after publication of the draft HIA, all give the impression that Cowlitz County is not serious about engaging those residents.

Willapa Hills Audubon Society strongly suggests that Cowlitz County make a real effort to reach out to residents

living and working close to the proposed export terminal and along the tracks—through schools, parent organizations, churches, and public agencies. This may mean holding more community meetings at various times and in easily accessed places near those residents, undertaking house-to-house surveys, residence-based focus groups, or other creative efforts to get these residents' input. However, contacting parents and staff at Woodland Primary School should be relatively easy. Getting the most affected residents' ideas and opinions now will make the final HIA's recommendations stronger and will create more community buy-in for those recommendations. It will also begin the public education campaign that will be needed if coal export terminal operations do start.

Comment Number: MBTL-HIA-00099-1

Commenter: Inga Fisher Williams

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

A> SERIOUS OMISSION in Draft HIA: Dredging of Columbia for Deep Draft Coal Barges. The Draft HIA for Millennium Bulk Terminal omits entirely the health impacts from dredging sludge disposal. I object in the strongest possible terms to the proposed disposal of the dredging sludge at Ross Island Sand & Gravel in Portland, Oregon. The Willamette River already has a Super Fund site in the Portland Harbor from WWII activities; we do not need another one. It stands to reason that the contamination from the Reynolds Aluminum plant operation was not limited to the proposed site but extended into the river bed as well. The toxicity testing may not be part of this application (permit pending, was the MBT statement) BUT the failure to even include it in the Draft HIA shows a limited focus on site-specific impacts.

Comment Number: MBTL-HIA-00101-1

Commenter: Fred Greef

Commenter Type: General Public

Classification: Technical

Other Sections: 2.2

Comment Excerpt Text:

I believe there are a couple of key flaws that should be addressed before the report is finalized since they may lead to significant underestimation of the public health consequences. PM 2.5 and diesel emissions (DPM) from huge barges may be underestimated.

The 2013 and 2016 background air quality monitoring for Longview may not have explicitly focused on the most impacted corridor, and likely does not represent true PM 2.5 background levels, or true diesel particulate (DPM) levels for that zone. The PM 2.5 emissions in those neighborhoods following build-out were modeled at 89% federal Ambient Air Quality Standards. The background level used in the modeling may not represent the critical impact zone levels, which are higher than other parts of Longview. I believe the true background level in the critical impact zone has never had adequate annual measurements. These are questions that should be addressed before the final HIA report.

The DPM estimates may also be underrepresented in the HIA modeling since the huge barges diesel emissions (docked outside of the study area) were not even counted. The fine particles in these emissions travel great distances with any wind up or down river, and no "wind rose" air quality modeling was conducted to justify the assumption of no additional PM 2.5 or DPM impact in the critical corridor. Washington Department of Ecology air quality modellers should look closely at all of these assumptions before we can say national air quality standards will not actually be violated.

Comment Number: MBTL-HIA-00101-2

Commenter: Fred Greef

Commenter Type: General Public

Classification: Technical

Other Sections: 2.1

Comment Excerpt Text:

Air quality monitors should be set up in the critical corridor where most severe health impacts and excess cancer deaths are predicted. At least one full year of ambient air quality monitoring background data should be collected in these neighborhoods before any project approvals. Public officials should then look more closely at all the modeling assumptions to determine whether this proposal will actually violate federal standards for PM 2.5, NO₂, and DPM. If health standards cannot be met the project must not be denied. I think there are some real questions here and real public health issues that call for air quality monitoring in these neighborhoods with true PM 2.5 PBR coal dust measurements. An Australian study based on PM 10 size coal particles is not good enough for the citizens of Longview.

Powder River Basin (PBR) coal breaks down into a much higher percentage of the finer sized PM 2.5 particles than coal from many other parts of the world. The HIA assumes particle size will be largely in the PM 10 size range. Coal dust impacts in Australia and other locations such as England were used to estimate Longview impacts. Modeling assumed that most of the coal dust would be in the PM 10 size class as in these other areas. The true PM 2.5 levels in the critical corridor area may well exceed the federal ambient air quality standard. 89% of the federal standard is way too close for comfort especially with several potentially faulty assumptions. The citizens of the most impacted neighborhoods in Longview already suffer much poorer health than most Washington citizens, from the same types of air pollution that this proposal will cause. Powder River Basin (PRB) coal-the type that would be exported---is notoriously difficult to handle. One technical analysis finds that "PRB coal is extremely friable and will break down into smaller particles virtually independent of how the coal is transported or handled." According to the study's authors, "PRB coal represents the extremes of handling problems."

So much coal dust escapes from the open-top rail cars used for transporting coal that it creates safety problems for rail traffic. Coal dust deposits sometimes cause spontaneous fires, and in 2005, for example, coal dust that had accumulated in ballast, the layer of crushed rock that supports rail tracks, caused derailments. Published and peer-reviewed scientific research by Dan Jaffe, a professor of atmospheric science at the University of Washington, casts doubt on the real-world effectiveness of controlling coal dust from rail transport even with use of surfactants. In 2013 and 2014, Jaffe installed air monitoring equipment that enabled him to analyze the emissions from hundreds of trains. He concluded that passing coal trains do in fact spread notable quantities of dust. The bulk storage piles at the Port of Longview will also be difficult to handle and manage and much PM 2.5 will wind up in many Longview neighborhoods whenever the wind blows. It travels much farther than PM 10 assumptions used for the HIA modeling.

Comment Number: MBTL-HIA-00101-3

Commenter: Fred Greef

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The connection between heavy coal traffic and oil train disasters must be also be considered. Wooden railroad ties may rot from coal dust and rain forming acid. The US Department of Transportation classifies coal dust as a "pernicious ballast foulant that can weaken and destabilize rail tracks."

This adds to the already severe threat of explosive and highly flammable Bakken oil trains using the same rail lines that the coal will follow. All the Washington towns along these routes face the same threat as the Mosier Oregon derailment. If those cars had exploded instead of just burning, the grade school 300 feet away would have

been gone, including all the children.

Comment Number: MBTL-HIA-00102-10

Commenter: Patricia Bode

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

In addition to these health threats, the draft HIA fails to recognize the serious threats posed by many heavy metals and other toxics that would be released due to the proposed coal export terminal.

Comment Number: MBTL-HIA-00103-1

Commenter: Kevin Baier

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Although lacking in some areas, this document is a strong first draft. It should provide the basis for clear recommendations from the HIA Steering Committee to prevent construction of the MBTL project and forever protect the health of communities from the dangers of coal mining, transport, storage and export. It can also be a tool to protect the health and safety of Cowlitz County residents from future projects that endanger human health and our climate.

Comment Number: MBTL-HIA-00103-10

Commenter: Kevin Baier

Commenter Type: General Public

Classification: Technical

Other Sections: 4.2

Comment Excerpt Text:

Please acknowledge that the significance of the draft HIA is limited due to the severely constrained geographic scope of the study area. The section on impacts from 16 trains passing through at-grade crossings in Cowlitz County each day and related health impacts due to delayed emergency response time is sorely lacking. If improved, it would help inform the municipalities along the transportation corridor of potential impacts to their residents and emergency services.

Comment Number: MBTL-HIA-00108-4

Commenter: Donald Lightfoot

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

I am concerned about the ill advised development intentions of Cowlitz County leaders and the influence of Millennium on county responsibilities and on this HIA process.

Comment Number: MBTL-HIA-00122-2

Commenter: Linda Carroll

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The section on impacts from 16 trains passing through at-grade crossings in Cowlitz County each day and related health impacts caused by delayed emergency response time is sorely lacking. If the section were to be improved by the addition of relevant information, it would at least help inform the municipalities along the transportation corridor of potential impacts to their residents and emergency services.

Comment Number: MBTL-HIA-00123-11

Commenter: Jane Middlesworth

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Please acknowledge that the significance of the draft HIA is limited because of the severely constrained geographic scope of the study area. The section on impacts from 16 trains passing through at-grade crossings in Cowlitz County each day and related health impacts because of delayed emergency response time is sorely lacking. If improved, it would at least help inform the municipalities along the transportation corridor of impacts to their residents and emergency services.

Comment Number: MBTL-HIA-00124-12

Commenter: Jane Middlesworth

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Please acknowledge that the significance of the draft HIA is limited because of the severely constrained geographic scope of the study area. The section on impacts from 16 trains passing through at-grade crossings in Cowlitz County each day and related health impacts because of delayed emergency response time is sorely lacking. If improved, it would at least help inform the municipalities along the transportation corridor of impacts to their residents and emergency services.

Comment Number: MBTL-HIA-00125-2

Commenter: CoreyE. Olsen

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

I request that you acknowledge that the significance of the draft HIA is limited due to the severely constrained geographic scope of the study area.

Comment Number: MBTL-HIA-00126-2

Commenter: CoreyE. Olsen

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

I request that you acknowledge that the significance of the draft HIA is limited due to the severely constrained geographic scope of the study area. If improved, it can at least help inform the municipalities along the transportation corridor of potential impacts to their residents and emergency services.

Comment Number: MBTL-HIA-00131-3

Commenter: Catherine Caron

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Finally, the draft HIA is limited due to the severely constrained geographic scope of the study area. The section on impacts from 16 trains passing through at-grade crossings in Cowlitz County each day and related health impacts due to delayed emergency response time needs to be expanded, and improved to the point that it will at the very least help inform the municipalities along the transportation corridor of potential impacts to their residents and emergency services.

Comment Number: MBTL-HIA-00133-1

Commenter: Mark Sawyer

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

On top of this, we need to realize that the significance of the draft HIA is limited due to the severely constrained geographic scope of the study area.

Comment Number: MBTL-HIA-00153-6

Commenter: Mary Headrick

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

In addition to these health threats, the draft HIA fails to recognize the serious threats posed by many heavy metals, NORMs and other toxics that would be released due to the proposed coal export terminal.

Comment Number: MBTL-HIA-00156-6

Commenter: Gerard Redpath

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The draft HIA fails to recognize the serious threats posed by many heavy metals and other toxics that would be released due to the proposed coal export terminal.

Comment Number: MBTL-HIA-00169-2

Commenter: Dave/Rita Cross

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

In addition to these health threats, the draft HIA fails to recognize the serious threats posed by many heavy metals and other toxics that would be released due to the proposed coal export terminal!

Comment Number: MBTL-HIA-00178-8

Commenter: Cynthia Bower

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

In addition to these health threats, the draft HIA fails to recognize the serious threats posed by several types heavy metals and other toxics that would be released due to the proposed coal export terminal.

Comment Number: MBTL-HIA-00199-6

Commenter: Bruce Hlodnicki

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

And exposures to increased heavy metals including lead. In addition to the public health effects I have listed, the draft HIA fails to recognize the serious toxic threats posed by many heavy metals and other noxious contaminants that would be released due to the proposed coal export terminal.

Comment Number: MBTL-HIA-00218-2

Commenter: Elizabeth Barger

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

But there is more information that should be added to the draft that makes the terminal even less healthy for the people and the land we live on. When burned it would equal Washington State's current total carbon emissions in one year.

Comment Number: MBTL-HIA-00218-8

Commenter: Elizabeth Barger

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The draft HIA must recognize the serious threats posed by many heavy metals and other toxics that would be released due to the proposed coal export terminal.

Comment Number: MBTL-HIA-00233-1

Commenter: Mark Fix

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

The derailment of the passenger train on I-5 recently is a reminder that derailments should be considered in this proposal.

Comment Number: MBTL-HIA-00242-1

Organization:

Commenter: Mary Masters

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

As a San Juan County resident, I am writing to While I remain concerned about the influence of Millennium on this HIA process, the data provided were striking.

Comment Number: MBTL-HIA-00244-1

Commenter: Linda Weiss

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

This is the first draft and there needs to be a second or third draft to more accurately identify the costly impacts to residents before the final statement is accepted.

Comment Number: MBTL-HIA-00249-2

Commenter: Jennifer Nitz

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

I am concerned about the influence of Millennium on this HIA process,

Comment Number: MBTL-HIA-00249-7

Commenter: Jennifer Nitz

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Acknowledge that the significance of the draft HIA is limited due to the severely constrained geographic scope of the study area.

Comment Number: MBTL-HIA-00250-1

Commenter: Elaine Phelps

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

However, this does not deal with any of the many negative impacts starting from the site of production and continuing all along the route to and into Cowlitz County. Surely these must be considered since the terminal has no reason to exist other than to accommodate the export of coal from Montana.

Section 9 - Other

Comment Number: MBTL-HIA-00065-5

Commenter: Chris Lish

Commenter Type: General Public

Classification: Technical

Comment Excerpt Text:

Please do NOT add my name to your mailing list. I will learn about future developments on this issue from other sources.