Document Control

Document Owner	Nikkei MC Aluminum America, Inc.
Management Representative	GM Compliance
ASI Alignment	ASI Performance Standards – Life Cycle Assessment
Effective Date	12/1/2025
Review Cycle	Annual or upon significant change
Approval Authority	Executive Management

Revision History

Revision	**Date**
0	12/1/2025

Nikkei MC Aluminum America, Inc.
Life Cycle Assessment Survey
Document Control & Revision History

Description of Change	Author
Initial controlled release – standardized Excel cover page	Sustainability / Compliance Team

Approver
Executive Management

General information: This file displays basin and operational r
selected company, sites within a selected group). The risk sco

Basin Risk Results: This tab lists the assessed site(s) and provi
risk types (Physical, Regulatory, Reputational), and risk categ
Environment, 7. Institutions & Governance, 8. Management I
Reputational Factors), as well as indicators (B1_1 to B12_3, s
more details, please refer to the Water Risk Filter Methodolo

Operational Risk Results: This tab lists the assessed site(s) an
assessment. Results are displayed as operational risk scores, r
questionnaire). Therefore, users who have completed only th
will be able to see missing data needed to complete the detai
You need to answer at least all questions in the short version
(Physical, Regulatory, Reputational), and risk categories (1. W
Conflict). For more details, please refer to the Water Risk Filte

Notes:
The information of Country (column J) and Province (column
reference/overview-world-geocoding-service.htm), and the ir
(https://www.bafg.de/GRDC/EN/02_srvcs/22_gslrs/223_WM
signalized with the sub-basin's WMOBB id after the basin's na
imply official endorsement or acceptance by WWF.

Basin Risk Types, Risk Categories, and Indicator

Risk Type	Risk Category	Key	Indicator
	1. Water Availability	B1_1	Water De
		B1_2	Baseline V
		B1_3	Blue Wate

PHYSICAL		B1_4	Groundw
	2. Drought	B2_1	Drought F
		B2_2	World Atl
	3. Flooding	B3_1	Estimated
		B3_2	Flood haz
	4. Water Quality	B4_1	Coastal Eu
		B4_2	Nitrate-N
		B4_3	Periphyto
		B4_4	Toxicity S
		B4_5	Mismanag
		B4_6	Risk of pe
		B4_7	Total Diss
		B4_8	Surface W
		B4_9	Surface W
	5. Ecosystem Services Status	B5_1	Catchmen
		B5_2	Violation
		B5_3	Wetland I
		B5_4	Invasive s
		B5_5	River exte
		B5_6	Fragment
REGULATORY	6. Enabling Environment	B6_1	Freshwat
		B6_2	Implemen
	7. Institutions & Governance	B7_1	Control o
		B7_2	Private Se
	8. Management Instruments	B8_1	Managem
		B8_2	Density o
	9. WASH Infrastructure	B9_1	Access to
		B9_2	Access to
REPUTATIONAL	10. Environmental Factors	B10_1	Freshwat
		B10_2	Freshwat
		B10_3	RAMSAR
		B10_4	Ecosysten
		B10_5	Free Flow
	11. Socioeconomic Factors	B11_1	Water Co
		B11_2	Labour/H
		B11_3	Financial
	12. Additional Reputational Factors	B12_1	Media scr
		B12_2	Risk Prepa
		B12_3	Sites of in

Operational Risk Types, Risk Categories, and In

Risk Type	Risk Category	Key	Short Version
		O1	Yes
		O2	Yes

PHYSICAL	1. Water Scarcity	**O3**	No
		O4	No
		O4a	No
		O4b	No
		O4c	No
		O4d	No
		O4e	No
		O4f	No
		O4g	No
		O5	No
		O5a	No
		O5b	No
		O5c	No
		O5d	No
		O5e	No
		O5f	No
		O5g	No
		O6	No
	3. Water Quality	**O7**	No
		O7a	No
		O7b	No
		O8	Yes
		O9	Yes
		O10	No
		O11	Yes
REGULATORY	5. Enabling Environment	**O12**	Yes
		O13	No
	6. Institutions & Governance	**O14**	Yes
		O15	No
		O15a	No
		O16	No
REPUTATIONAL	11. Media Scrutiny	**O17**	No
		O18	No
	12. Conflict	**O19**	Yes
		O20	Yes
		O21	Yes
		O22	No
Other		***O23***	No
		O24	No
		O25	No
		O25a	No
		O26	No
		O27	No
		O28	No

ntroduction to the Risk Assessment Results Export

risk results for the assessed site(s) selected within your portfolio (i.e. selected individual site, sites within a
ore classification is consistent throughout all indicators, risk categories, and risk types:

1.0 <= x <= 1.8 Very low risk
1.8 < x <= 2.6 Low risk
2.6 < x <= 3.4 Medium risk
3.4 < x <= 4.2 High risk
4.2 < x <= 5.0 Very high risk
4.2 < x <= 5.0 Very high risk

des their respective basin risk result. Risk scores are provided for all Water Risk Filter aggregated risk layers, i.e.
ories (1. Water Availability, 2. Drought, 3. Drought, 4. Water Quality, 5. Ecosystem Services Status, 6. Enabling
nstruments, 9. WASH Infrastructure, 10. Environmental Factors, 11. Socioeconomic Factors, and 12. Additional
ee names below). Note that the aggregated risk layers are computed based on specific industry of each site. For
gy available at https://riskfilter.org/water/explore/data-and-methods

d provides their respective operational risk results based on the responses provided in the rapid or detailed
numerical value or text for the full list of questions in the detailed assessment (longer version operational
e short version operational questionnaire will have their results displayed based on the rapid assessment and
iled assessment.
operational questionnaire (see questions below) for aggregated risk results to be provided, i.e. risk types
Vater Scarcity, 3. Water Quality, 5. Enabling Environment, 6. Institutions & Governance, 11. Media Scrutiny, 12.
er Methodology available at https://riskfilter.org/water/explore/data-and-methods

K) are retrieved from Esri's Geocoding service (https://developers.arcgis.com/rest/geocode/api-
nformation of River basin (column L) is based on the WMO Basins and Sub-Basins, 3rd ed.
IO/wmo_regions_node.html), with the caveat that when basins are subdivided into sub-basins these are
ame, for example, Amazon (322). However, the boundaries and names shown and the designations used do not

'S

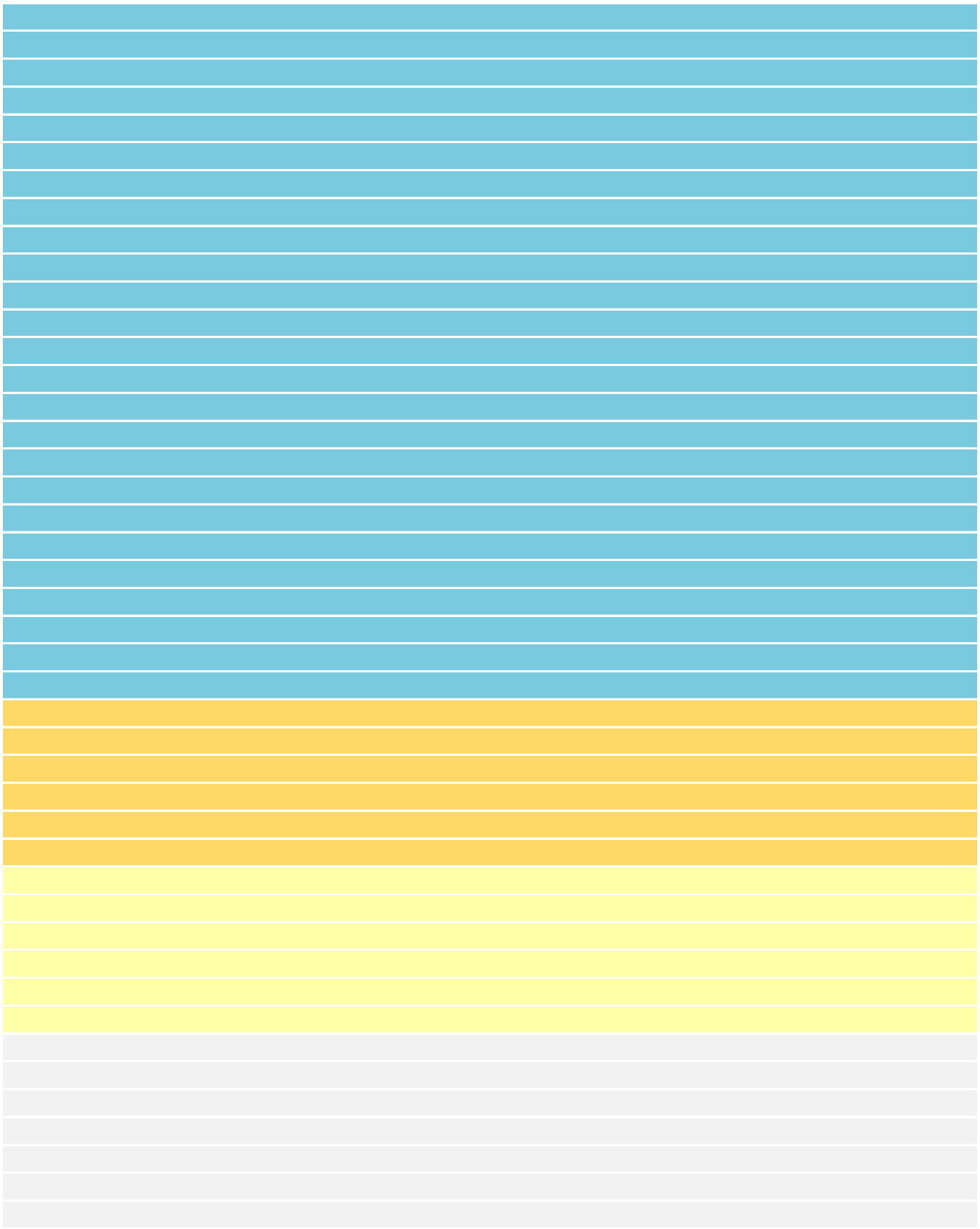
name
pletion
Water Stress
er Scarcity

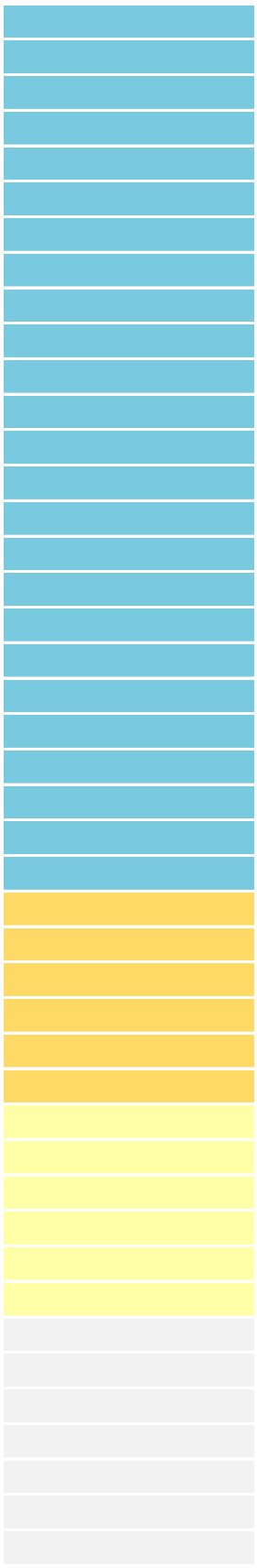
ater
Frequency Probability
as of Desertification
l Flood Occurrence
ard
utrophication Potential
itrite Concentration
n Growth Potential
tress
ged Plastic Waste
sticide pollution
olved Solids
Vater Quality Index BOD
Vater Quality Index Electrical Conductivity
nt Ecosystem Services Degradation Level
of Environmental Flows
Degradation
pecies
ent change
ation Status of Rivers
er Policy Status (SDG 6.5.1)
ntation Status of Water Management Plans (SDG 6.5.1)
f Corruption
ector Participation in Water Management (SDG 6.5.1)
nent Instruments for Water Management (SDG 6.5.1)
f Runoff Monitoring Stations
Basic Safe Drinking Water
Basic Sanitation
er Endemism
er Biodiversity Richness
wetlands
n Condition
ving Rivers FFR
nflicts
uman Rights
Inequality
rutiny
aration
nternational interest

dicators

Question
In which ways does the site use water?
How important is the current and future use of water quantity and quality for operating/processing at this site?

Has the site had problems withdrawing the required amount of water for its operations OR has the site experien
What is the total annual amount of water withdrawn (directly from any water source including municipal supply
What is the specific total annual amount of water withdrawn (directly from any water source including municipa
What is the specific total annual amount of water withdrawn from fresh surface water (e.g., river, lake, rainwate
What is the specific total annual amount of water withdrawn from brackish surface water (e.g., lagoon, estuary,
What is the specific total annual amount of water withdrawn from groundwater (e.g., well) in m3/year? (optiona
What is the specific total annual amount of water withdrawn from sea/ocean water in m3/year? (optional)
What is the specific total annual amount of water withdrawn from produced water (e.g., mine dewatering, well)
What is the specific total annual amount of water withdrawn from third party water service providers (m^3/year)?
What is the total annual amount of water discharged from this site to any endpoint (including municipal wastew
What is the specific total annual amount of water discharged from this site to any endpoint (including municipal
What is the specific total annual amount of water discharged to fresh surface water (e.g., river, lake, rainwater) i
What is the specific total annual amount of water discharged to brackish surface water (e.g., lagoon, estuary, bu
What is the specific total annual amount of water discharged to groundwater (e.g., returned to well/aquifer, inje
What is the specific total annual amount of water discharged to the sea/ocean in m^3/year? (optional)
What is the specific total annual amount of water discharged to long term water storage (e.g., tailings ponds) in
What is the specific total annual amount of water discharged to a third party water service provider (e.g., local w
What is the primary source of energy serving the site?
Of your discharged water, what percentage contains contaminants and is discharged directly to the environment
What is the total annual amount of nitrogen (N) discharged to any source in T/year? (optional)
What is the total annual amount of phosphorus (P) discharged to any source in T/year? (optional)
Is it necessary to treat/purify on-site the water the site withdraws before its use in operations?
Is it necessary to treat/purify on-site the water the site withdraws after its use in operations and prior to dischar
Does the site use hazardous chemicals in its operations or store them on site?
What is the potential impact of the site's operations on downstream water quality in terms of physical, chemical
Relative to other water users in your local catchment (~ 50km radius), does this site face heavy water-related re
Is the company exposed to planned or potential significant regulatory changes at this site?
Is the site always in compliance with legal wastewater quality standards?
Has this site been subject to any fines, enforcement orders, and/or other penalties for water-related regulatory
If yes, please indicate the amount of the penalties/fines (optional)
Does an official forum or platform exist in which the site and stakeholders come together to discuss water-relate
Has there been any local/national media coverage that identifies this site (negatively) on a water issue in the pas
Has there been any global media coverage that identifies this site or its parent company (negatively) on a water
Relative to other water users in your local catchment (~ 50km radius), would you consider the site a large water
Relative to other water users in your local catchment (~ 50km radius), is the company associated with the site a
How would you describe this site's general water management/stewardship maturity?
Has the company had involvement in any water-related disputes with other stakeholders in the basin within the
What is the annual production volume for the site (primary or all products)? (optional)
Please select the appropriate production volume unit (optional)
Please select the approximate value of the annual production volume (optional)
What is the specific value of the annual production volume? (optional)
Please select the currency used to denote value (optional)
What is the number of full time equivalent employees (FTE) working at this site? (optional)
If you have any final comments, please add them here (optional)





Water Risk Filter
Basin Risk Results

Dataset: Global_2024

Site ID	Company Name	Site Name	Industry	Commodity
692609d34	Nikkei MC Aluminum	NMAA	Metals & Mining	NA

Export Date: 12/8/2025

Group	Business Importance	Latitude	Longitude	Country
NA	Medium	39.1360	-85.9521	United States

		Basin Physical Risk	1. Water Availability	2. Drought	3. Flooding	4. Water Quality
Province	River Basin	BPH	BRC1	BRC2	BRC3	BRC4
Indiana	Ohio	2.4	1.4	1.5	3.5	3.6

5. Ecosystem Services	Basin Regulatory Risk	6. Enabling Environment	7. Institutions & Governan	8. Management Instrumen	9. WASH Infrastructure	Basin Reputational Risk	10. Environmental Factors	11. Socioeconomic Factors
BRC5	BRG	BRC6	BRC7	BRC8	BRC9	BRP	BRC10	BRC11
3.4	1.4	1.0	2.0	1.3	1.0	2.6	2.5	2.8

12. Additional Reputational	1. Water Availability				2. Drought		3. Flooding	
BRC12	B1_1	B1_2	B1_3	B1_4	B2_1	B2_2	B3_1	B3_2
2.6	1.0	3.0	1.0	1.0	1.0	2.0	5.0	2.0

4. Water Quality								
B4_1	**B4_2**	**B4_3**	**B4_4**	**B4_5**	**B4_6**	**B4_7**	**B4_8**	**B4_9**
3.0	3.0	3.0	5.0	3.0	3.0	4.0	5.0	4.0

5. Ecosystem Services Status						6. Enabling Environment		7. Institu Gover
B5_1	B5_2	B5_3	B5_4	B5_5	B5_6	B6_1	B6_2	B7_1
1.0	2.0	5.0	5.0	3.0	4.0	1.0	1.0	2.0

ıtions & nance	8. Management Instruments		9. WASH Infrastructure		10. Environmental Factors			
B7_2	B8_1	B8_2	B9_1	B9_2	B10_1	B10_2	B10_3	B10_4
2.0	1.0	2.0	1.0	1.0	3.0	5.0	1.0	1.5

	11. Socioeconomic Factors			12. Additional Reputational Factors		
B10_5	**B11_1**	**B11_2**	**B11_3**	**B12_1**	**B12_2**	**B12_3**
2.0	4	1	3	5	1	1

Water Risk Filter
Operational Risk Results

Dataset: Global_2024

Site ID	Company Name	Site Name	Industry	Commodity
692609d34	Nikkei MC Aluminum	NMAA	Metals & Mining	NA

Export Date: 12/8/2025

Group	Business Importance	Latitude	Longitude	Country
NA	Medium	39.1360	-85.9521	United States

		Operational Physical Risk	1. Water Scarcity	3. Water Quality	Operational Regulatory Risk	5. Enabling Environment
Province	River Basin	OPH	ORC1	ORC3	ORG	ORC5
Indiana	Ohio	2.3	2.4	1.2	1.5	1.0

6. Institutions & Governan	Operational Reputational Risk	11. Media Scrutiny	12. Conflict					
ORC6	ORP	ORC11	ORC12	O1	O2	O3	O4	*O4a*
1.9	1.7	1.0	2.1	3	5	1	2	40212.0

1. Water Scarcity								
O4b	*O4c*	*O4d*	*O4e*	*O4f*	*O4g*	**O5**	*O5a*	*O5b*
0.0	0.0	0.0	0.0	0.0	40212.0	2	34265.0	0.0

								3.
O5c	*O5d*	*O5e*	*O5f*	*O5g*	**O6**	**O7**	*O7a*	*O7b*
0.0	109.0	0.0	0.0	34156.0	3	1	0.0	0.0

Water Quality				5. Enabling Environment		6. Institutions & Governar		
O8	O9	O10	O11	O12	O13	O14	O15	*O15a*
1	1	2	1	1	1	1	1	

nce	11. Media Scrutiny		12. Conflict					
O16	O17	O18	O19	O20	O21	O22	O23	O24
4	1	1	3	2	2	1		NA

Other				
O25	*O25a*	**O26**	**O27**	**O28**
NA		NA	98.0	