



**Teck Coal Limited**  
Sustainable Development  
P.O. Box 1777  
421 Pine Avenue  
Sparwood, B.C. Canada V0B 2G0

[www.teck.com](http://www.teck.com)

Correction Notice

**To:** BC Ministry of Energy, Mines, and Low Carbon Innovation Major Mines Office

**From:** Teck Coal Limited

**CC:** Amanda Thumma, Jessica Mackie, Matthew Gay, Shireen Ouellet, Adam Langer, Jenni de Werk

**Subject:** 2022 Implementation Plan Adjustment (IPA) Correction Notice

**Date:** June 21, 2023

During the review of the 2022 IPA (submitted on July 28, 2022) through the Ministry of Mines (MMO) review process, Teck found minor errors in the 2022 IPA which are addressed in this correction notice.



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## Correction Notice

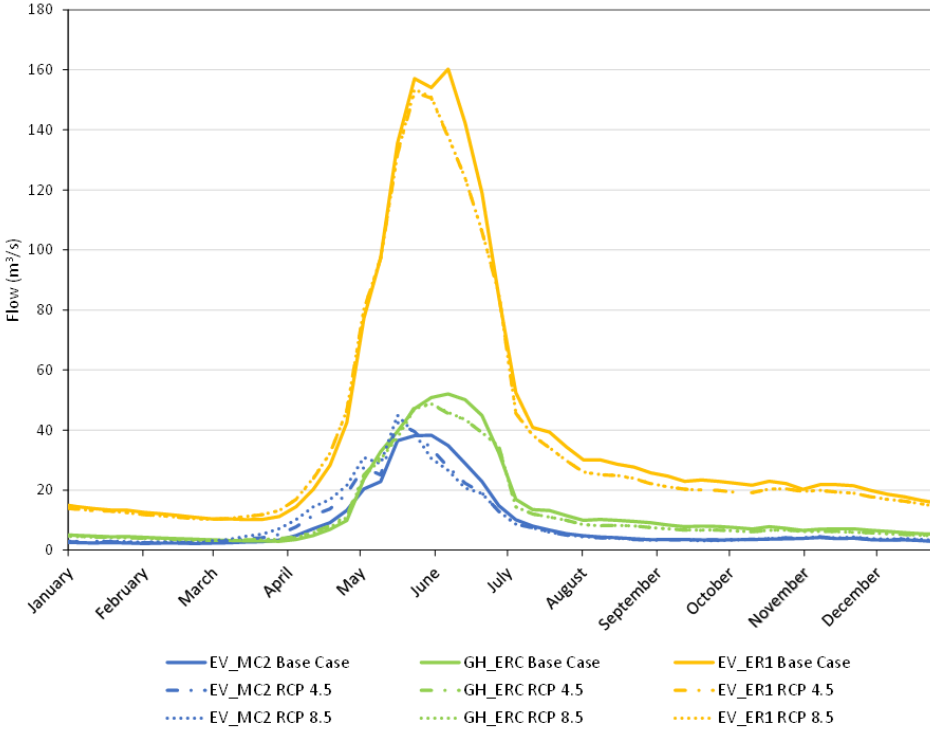
Section in the 2022 IPA	Correction
Main document- 2.5 Water Mitigation Project Development and Permitting Process	<p>In Figures 2.2 through 2.5, "Construction and commissioning" were included on one line. Commissioning in this line item was intended to refer to certain testing activities that occur in or around the time of Transfer of Care, Custody and Control (TCCC). To clarify the intent, Teck has revised the tables to revise "commissioning" to "testing" and have added a separate line for commissioning activities leading to the operational date.</p> <p>Figure 2.2 and Figure 2.3: are mislabeled.</p> <ul style="list-style-type: none"><li>• Figure 2.2 (separate) should in fact be Figure 2.3 (single permit)</li><li>• Figure 2.3 (single) should in fact be Figure 2.2 (separate permit)</li></ul> <p>An additional error was observed with Figure 2.5. The construction and commissioning period should not extend beyond TCCC.</p> <p>All figures are corrected below.</p>

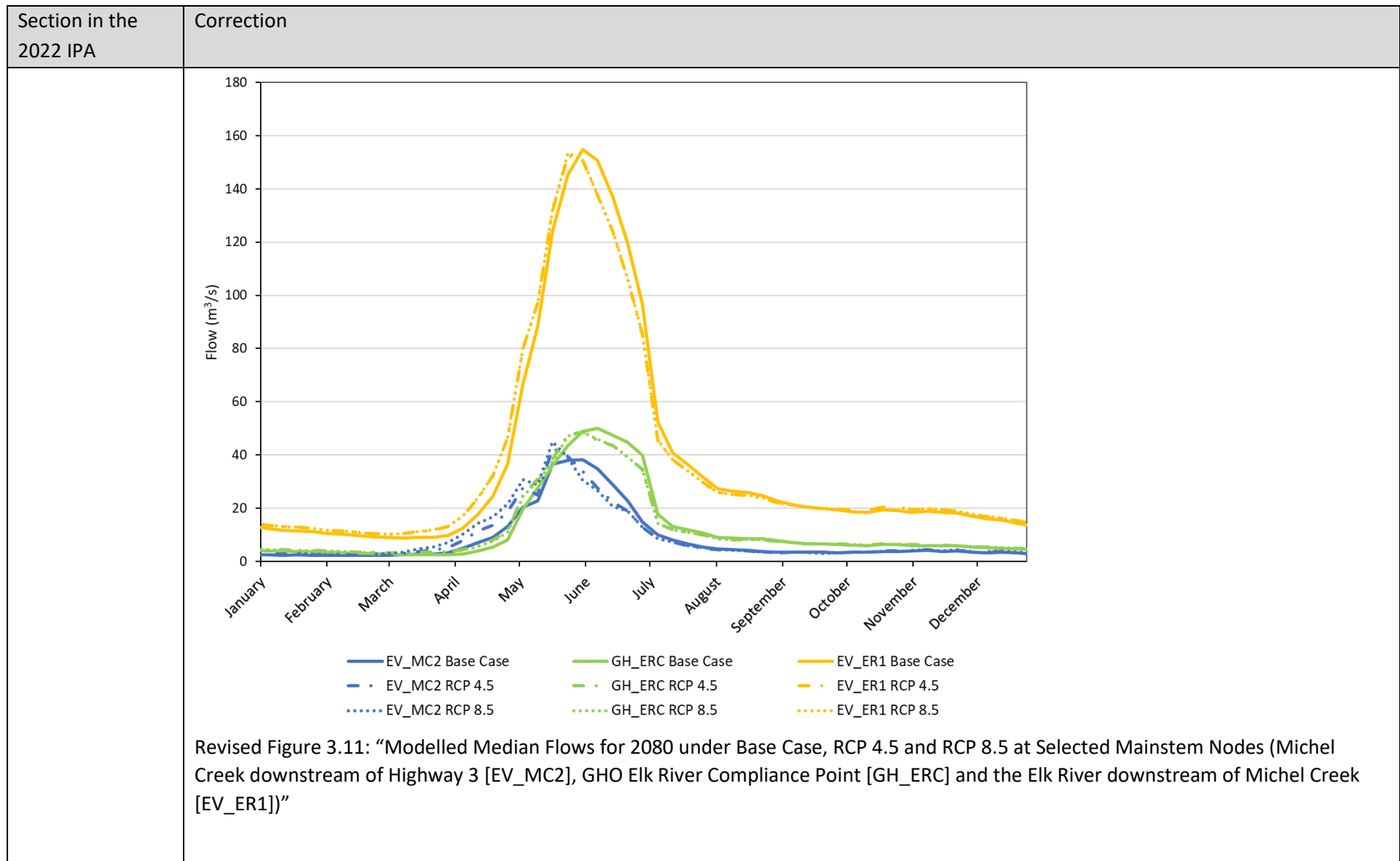
Section in the 2022 IPA	Correction
	<p>Original: “Overview Schedule of SRF when Employing a <b>Single Permit Strategy – New Facility</b>”</p> <p>Revised Figure 2.2: “Overview Schedule of SRF when Employing a <b>Single Permit Strategy – New Facility</b>”</p>

Section in the 2022 IPA	Correction																																																																																																																																																																																																																																																																																																																																									
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Section in the 2022 IPA	Correction
<p>Original Figure 2.4: “Overview Schedule of AWTF When Employing a Separate Permit Strategy – New Facility”</p> <p>Revised Figure 2.4: “Overview Schedule of AWTF When Employing a Separate Permit Strategy – New Facility”</p>	

Section in the 2022 IPA	Correction
	<p>Original Figure 2.5: “Overview Schedule of a Sulphate Facility When Employing a Combined Permit Strategy”</p> <p>Revised Figure 2.5: “Overview Schedule of a Sulphate Facility When Employing a Combined Permit Strategy”</p>

Section in the 2022 IPA	Correction
Main document- Section 3.3.4 Changes to Model Inputs Related to Climate	<p data-bbox="394 311 2028 376">Below is the monthly comparison of flows at ER_ER1 in the 2080s for the Representative Concentration Pathway RCP 8.5 scenario including the original and the corrected Figure 3.11. The figure is corrected below.</p>  <p data-bbox="394 1214 2028 1318">Original Figure 3.11: “Modelled Median Flows for 2080 under Base Case, RCP 4.5 and RCP 8.5 at Selected Mainstem Nodes (Michel Creek downstream of Highway 3 [EV_MC2], GHO Elk River Compliance Point [GH_ERC] and the Elk River downstream of Michel Creek [EV_ER1])”</p>





Section in the 2022 IPA	Correction
Annex C- Projected Concentrations of Nitrate, Selenium and Sulphate	<p>Table 4-3: “Projected Selenium Concentrations at the LCO Compliance Point (LC_LCDSSLCC; E297110) with and without Changes to Water Availability”. There were mislabeled columns table.</p> <p>The correct header rows are:</p> <ul style="list-style-type: none"> <li>• Projected Maximum P90 Monthly Average Selenium Concentrations (µg/L) - 2022 IPA 60% (Column 2), West Line 50% (Column 3), and West Line 70% (Column 4)</li> <li>• Relative Difference (%) - West Line 50% (Column 5), and West Line 70% (Column 6)</li> </ul>

Section in the 2022 IPA	Correction																																																																																																																																																																	
	<p>Original Table 4: “Projected Selenium Concentrations at the LCO Compliance Point (LC_LCDSSLCC; E297110) with and without Changes to Water Availability”</p> <table><tr><th rowspan="2">Year<sup>(a)</sup></th><th colspan="3">Projected Maximum P<sub>90</sub> Monthly Average Selenium Concentrations (µg/L)</th><th colspan="2">Relative Difference (%)<sup>(b)</sup></th></tr><tr><th>2022 IPA 60%</th><th>West Line 70%</th><th>West Line 50%</th><th>West Line 70%</th><th>West Line 50%</th></tr><tr><td>2030</td><td>43</td><td>43</td><td>43</td><td>-1%</td><td>0%</td></tr><tr><td>2031</td><td>43</td><td>43</td><td>43</td><td>0%</td><td>0%</td></tr><tr><td>2032</td><td>42</td><td>42</td><td>42</td><td>0%</td><td>-1%</td></tr><tr><td>2033</td><td>36</td><td>37</td><td>35</td><td>3%</td><td>-2%</td></tr><tr><td>2034</td><td>29</td><td>31</td><td>27</td><td>7%</td><td>-7%</td></tr><tr><td>2035</td><td>28</td><td>30</td><td>25</td><td>9%</td><td>-9%</td></tr><tr><td>2036</td><td>28</td><td>30</td><td>25</td><td>8%</td><td>-9%</td></tr><tr><td>2037</td><td>27</td><td>30</td><td>25</td><td>10%</td><td>-10%</td></tr><tr><td>2038</td><td>27</td><td>30</td><td>24</td><td>10%</td><td>-10%</td></tr><tr><td>2039</td><td>27</td><td>30</td><td>25</td><td>10%</td><td>-10%</td></tr><tr><td>2040</td><td>27</td><td>30</td><td>25</td><td>10%</td><td>-10%</td></tr><tr><td>2041</td><td>28</td><td>30</td><td>25</td><td>10%</td><td>-10%</td></tr><tr><td>2042</td><td>28</td><td>30</td><td>25</td><td>9%</td><td>-10%</td></tr><tr><td>2043</td><td>28</td><td>30</td><td>25</td><td>9%</td><td>-10%</td></tr><tr><td>2044</td><td>28</td><td>30</td><td>25</td><td>9%</td><td>-10%</td></tr><tr><td>2045</td><td>28</td><td>30</td><td>25</td><td>9%</td><td>-10%</td></tr><tr><td>2046</td><td>27</td><td>30</td><td>25</td><td>10%</td><td>-10%</td></tr><tr><td>2047</td><td>28</td><td>30</td><td>25</td><td>10%</td><td>-10%</td></tr><tr><td>2048</td><td>27</td><td>30</td><td>25</td><td>9%</td><td>-10%</td></tr><tr><td>2049</td><td>27</td><td>30</td><td>25</td><td>10%</td><td>-10%</td></tr><tr><td>2050</td><td>27</td><td>29</td><td>24</td><td>10%</td><td>-10%</td></tr><tr><td>2051</td><td>27</td><td>29</td><td>24</td><td>10%</td><td>-10%</td></tr><tr><td>2052</td><td>27</td><td>29</td><td>24</td><td>10%</td><td>-10%</td></tr><tr><td>2053</td><td>27</td><td>29</td><td>24</td><td>10%</td><td>-10%</td></tr><tr><td colspan="4">Average</td><td>8%</td><td>-8%</td></tr></table>	Year <sup>(a)</sup>	Projected Maximum P <sub>90</sub> Monthly Average Selenium Concentrations (µg/L)			Relative Difference (%) <sup>(b)</sup>		2022 IPA 60%	West Line 70%	West Line 50%	West Line 70%	West Line 50%	2030	43	43	43	-1%	0%	2031	43	43	43	0%	0%	2032	42	42	42	0%	-1%	2033	36	37	35	3%	-2%	2034	29	31	27	7%	-7%	2035	28	30	25	9%	-9%	2036	28	30	25	8%	-9%	2037	27	30	25	10%	-10%	2038	27	30	24	10%	-10%	2039	27	30	25	10%	-10%	2040	27	30	25	10%	-10%	2041	28	30	25	10%	-10%	2042	28	30	25	9%	-10%	2043	28	30	25	9%	-10%	2044	28	30	25	9%	-10%	2045	28	30	25	9%	-10%	2046	27	30	25	10%	-10%	2047	28	30	25	10%	-10%	2048	27	30	25	9%	-10%	2049	27	30	25	10%	-10%	2050	27	29	24	10%	-10%	2051	27	29	24	10%	-10%	2052	27	29	24	10%	-10%	2053	27	29	24	10%	-10%	Average				8%	-8%
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	<div>Revised Table 4: “Projected Selenium Concentrations at the LCO Compliance Point (LC_LCDSSLCC; E297110) with and without Changes to Water Availability”</div> <table><tr><th rowspan="2">Year<sup>(a)</sup></th><th colspan="3">Projected Maximum P<sub>90</sub> Monthly Average Selenium Concentrations (µg/L)</th><th colspan="2">Relative Difference (%)<sup>(b)</sup></th></tr><tr><th>2022 IPA 60%</th><th>West Line 50%</th><th>West Line 70%</th><th>West Line 50%</th><th>West Line 70%</th></tr><tr><td>2030</td><td>43</td><td>43</td><td>43</td><td>-1%</td><td>0%</td></tr><tr><td>2031</td><td>43</td><td>43</td><td>43</td><td>0%</td><td>0%</td></tr><tr><td>2032</td><td>42</td><td>42</td><td>42</td><td>0%</td><td>-1%</td></tr><tr><td>2033</td><td>36</td><td>37</td><td>35</td><td>3%</td><td>-2%</td></tr><tr><td>2034</td><td>29</td><td>31</td><td>27</td><td>7%</td><td>-7%</td></tr><tr><td>2035</td><td>28</td><td>30</td><td>25</td><td>9%</td><td>-9%</td></tr><tr><td>2036</td><td>28</td><td>30</td><td>25</td><td>8%</td><td>-9%</td></tr><tr><td>2037</td><td>27</td><td>30</td><td>25</td><td>10%</td><td>-10%</td></tr><tr><td>2038</td><td>27</td><td>30</td><td>24</td><td>10%</td><td>-10%</td></tr><tr><td>2039</td><td>27</td><td>30</td><td>25</td><td>10%</td><td>-10%</td></tr><tr><td>2040</td><td>27</td><td>30</td><td>25</td><td>10%</td><td>-10%</td></tr><tr><td>2041</td><td>28</td><td>30</td><td>25</td><td>10%</td><td>-10%</td></tr><tr><td>2042</td><td>28</td><td>30</td><td>25</td><td>9%</td><td>-10%</td></tr><tr><td>2043</td><td>28</td><td>30</td><td>25</td><td>9%</td><td>-10%</td></tr><tr><td>2044</td><td>28</td><td>30</td><td>25</td><td>9%</td><td>-10%</td></tr><tr><td>2045</td><td>28</td><td>30</td><td>25</td><td>9%</td><td>-10%</td></tr><tr><td>2046</td><td>27</td><td>30</td><td>25</td><td>10%</td><td>-10%</td></tr><tr><td>2047</td><td>28</td><td>30</td><td>25</td><td>10%</td><td>-10%</td></tr><tr><td>2048</td><td>27</td><td>30</td><td>25</td><td>9%</td><td>-10%</td></tr><tr><td>2049</td><td>27</td><td>30</td><td>25</td><td>10%</td><td>-10%</td></tr><tr><td>2050</td><td>27</td><td>29</td><td>24</td><td>10%</td><td>-10%</td></tr><tr><td>2051</td><td>27</td><td>29</td><td>24</td><td>10%</td><td>-10%</td></tr><tr><td>2052</td><td>27</td><td>29</td><td>24</td><td>10%</td><td>-10%</td></tr><tr><td>2053</td><td>27</td><td>29</td><td>24</td><td>10%</td><td>-10%</td></tr><tr><td colspan="4">Average</td><td>8%</td><td>-8%</td></tr></table> <div>µg/L = micrograms per litre; % = percent.</div> <div>(a) Start year corresponds to year when collection of West Line Creek groundwater is assumed to begin.</div> <div>(b) Relative difference in projected maximum P<sub>90</sub> monthly average concentrations was calculated as follows: <math>(Maximum\ P_{90}\ Monthly\ Average\ Concentration_{Sensitivity\ Analysis} - Maximum\ P_{90}\ Monthly\ Average\ Concentration_{2022\ IPA}) / Maximum\ P_{90}\ Monthly\ Average\ Concentration_{2022\ IPA}</math>. Positive values indicate an increase in projected concentrations compared to the 2022 IPA. Negative values indicate a decrease in projected concentrations compared to the 2022 IPA.</div>	Year <sup>(a)</sup>	Projected Maximum P <sub>90</sub> Monthly Average Selenium Concentrations (µg/L)			Relative Difference (%) <sup>(b)</sup>		2022 IPA 60%	West Line 50%	West Line 70%	West Line 50%	West Line 70%	2030	43	43	43	-1%	0%	2031	43	43	43	0%	0%	2032	42	42	42	0%	-1%	2033	36	37	35	3%	-2%	2034	29	31	27	7%	-7%	2035	28	30	25	9%	-9%	2036	28	30	25	8%	-9%	2037	27	30	25	10%	-10%	2038	27	30	24	10%	-10%	2039	27	30	25	10%	-10%	2040	27	30	25	10%	-10%	2041	28	30	25	10%	-10%	2042	28	30	25	9%	-10%	2043	28	30	25	9%	-10%	2044	28	30	25	9%	-10%	2045	28	30	25	9%	-10%	2046	27	30	25	10%	-10%	2047	28	30	25	10%	-10%	2048	27	30	25	9%	-10%	2049	27	30	25	10%	-10%	2050	27	29	24	10%	-10%	2051	27	29	24	10%	-10%	2052	27	29	24	10%	-10%	2053	27	29	24	10%	-10%	Average				8%	-8%
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Annex D- Integrated Effects Assessment	<p>There was a correction to address the relationship that was used to model potential effects of nitrate on fish early life stages; the incorrect parameters were used when modeling, resulting in an underestimation at lower levels of potential effects.</p> <p><b><u>Revised Assessment Results for Nitrate Effects on Fish</u></b></p> <p>The updated effect relationship for nitrate effects on fish early life stages contained an error that led to an underestimation of effects under some conditions. The impact of this error on integrated assessment results is shown by comparison between the Original Table 4 and Revised Table 4, both presented below.</p> <p>Highlighted cells in Revised Table 4 show where there would be a change to the interpretation with respect to attainment of assessment criteria. This comparison shows that assessment results continue to be met in Management Unit 1 (MU1) (upper Fording River) after 2022 and in other MUs in all years. In MU1 in 2021 and 2022, the assessment result of integrated effect on the most sensitive fish endpoint was met on an area-weighted basis (integrated effect 5-6%) but not on a fish-use basis (integrated effect 10-11%). In addition, the assessment result of 100% of mainstem Fording River reaches having less than 10% modelled effect was not met in MU1 in 2021 and 2022 (proportion 93-94%) but was met in all years thereafter (proportion 100%).</p> <p>Original Table 4: “Integrated Assessment Results for Nitrate Effects on Fish”</p> <table><tr><th rowspan="2">Assessment Period</th><th colspan="5">Integrated Effect on Most Sensitive Endpoint</th><th colspan="5">Proportion of Mainstem &lt;10% Effect</th></tr><tr><th>MU1<sup>(a)</sup></th><th>MU2</th><th>MU3</th><th>MU4</th><th>MU5</th><th>MU1</th><th>MU2</th><th>MU3</th><th>MU4</th><th>MU5</th></tr><tr><td>2021</td><td>2% / 6%</td><td>1%</td><td>0%</td><td>0%</td><td>0%</td><td>100%</td><td>100%</td><td>100%</td><td>100%</td><td>100%</td></tr><tr><td>2022</td><td>2% / 5%</td><td>1%</td><td>0%</td><td>0%</td><td>0%</td><td>100%</td><td>100%</td><td>100%</td><td>100%</td><td>100%</td></tr><tr><td>2023</td><td>0% / 1%</td><td>0%</td><td>0%</td><td>0%</td><td>0%</td><td>100%</td><td>100%</td><td>100%</td><td>100%</td><td>100%</td></tr><tr><td>2024</td><td>0% / 0%</td><td>0%</td><td>0%</td><td>0%</td><td>0%</td><td>100%</td><td>100%</td><td>100%</td><td>100%</td><td>100%</td></tr><tr><td>2025</td><td>0% / 0%</td><td>0%</td><td>0%</td><td>0%</td><td>0%</td><td>100%</td><td>100%</td><td>100%</td><td>100%</td><td>100%</td></tr><tr><td>2026</td><td>0% / 0%</td><td>0%</td><td>0%</td><td>0%</td><td>0%</td><td>100%</td><td>100%</td><td>100%</td><td>100%</td><td>100%</td></tr><tr><td>2027</td><td>0% / 0%</td><td>0%</td><td>0%</td><td>0%</td><td>0%</td><td>100%</td><td>100%</td><td>100%</td><td>100%</td><td>100%</td></tr><tr><td>2028</td><td>0% / 0%</td><td>0%</td><td>0%</td><td>0%</td><td>0%</td><td>100%</td><td>100%</td><td>100%</td><td>100%</td><td>100%</td></tr><tr><td>2029-2053</td><td>0% / 0%</td><td>0%</td><td>0%</td><td>0%</td><td>0%</td><td>100%</td><td>100%</td><td>100%</td><td>100%</td><td>100%</td></tr></table>	Assessment Period	Integrated Effect on Most Sensitive Endpoint					Proportion of Mainstem <10% Effect					MU1 <sup>(a)</sup>	MU2	MU3	MU4	MU5	MU1	MU2	MU3	MU4	MU5	2021	2% / 6%	1%	0%	0%	0%	100%	100%	100%	100%	100%	2022	2% / 5%	1%	0%	0%	0%	100%	100%	100%	100%	100%	2023	0% / 1%	0%	0%	0%	0%	100%	100%	100%	100%	100%	2024	0% / 0%	0%	0%	0%	0%	100%	100%	100%	100%	100%	2025	0% / 0%	0%	0%	0%	0%	100%	100%	100%	100%	100%	2026	0% / 0%	0%	0%	0%	0%	100%	100%	100%	100%	100%	2027	0% / 0%	0%	0%	0%	0%	100%	100%	100%	100%	100%	2028	0% / 0%	0%	0%	0%	0%	100%	100%	100%	100%	100%	2029-2053	0% / 0%	0%	0%	0%	0%	100%	100%	100%	100%	100%
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