


COUNCIL ACTION SHEET

To:	The Mayor and Members of City Council	
From:	Mouhamad Zaher, Public Works Director	
Date:	August 17, 2022	
Subject:	2021-2022 Cascade Reserve Allocation Annual Adjustment	

Background: The biochemical oxygen demand or BOD loading rate from the Cascades mill is reviewed annually in March and compared with the reserve allocation from the previous year per the terms of the Operation and Use Agreement. Last year the mill's percentage was 76.7. Data for the past year shows that the actual loading has increased to an average of 83.3%. (see table).

March 2021 – February 2022 Cascade BOD Loading					
	ME BOD	PE BOD	Total		
	Avg lbs/day	Avg lbs/day	Avg lbs/day	ME %	PE %
Mar-21	3172	1207	4379	72.44	27.56
Apr-21	4634	898	5532	83.77	16.23
May-21	5843	862	6705	87.14	12.86
Jun-21	5494	798	6292	87.32	12.68
Jul-21	5306	655	5961	89.01	10.99
Aug-21	5686	603	6289	90.41	9.59
Sep-21	4526	718	5244	86.31	13.69
Oct-21	6402	1040	7442	86.03	13.97
Nov-21	5333	1250	6583	81.01	18.99
Dec-21	6029	1350	7379	81.70	18.30
Jan-22	4986	1444	6430	77.54	22.46
Feb-22	5054	1484	6538	77.30	22.70
Totals	62465	12309	74774		
Averages	5205.42	1025.75	6231.17	83.3	16.7

**Abbreviations: BOD: Biochemical Oxygen Demand; ME: Mill Effluent; PE: Primary Effluent; Avg: Average; lbs: Pounds*

Recommendation: Adjust Cascades' reserve to 83.3% per the terms of the Operation and Use Agreement. This number is based on the average loading from Cascades compared to the loading from the City's Primary lagoon as outlined in section 9.2.3 in the Agreement. Per the Agreement, Cascades pays either the reserve minimum or for actual loading, whichever is higher.