

Stack - 2023 (Every 2 Years)

Tree Island Industries Ltd.
Permit: 0184 / Due Date: September 30, 2023

13 - Four nail galvanizing machines associated with No. 4 hot nail galvanizing line					
Particulate Matter					
Test Dates:	Apr 18, 2023	Apr 18, 2023	Apr 18, 2023		
Test Results:	0.0900 mg/m3	0.0900 mg/m3	0.0900 mg/m3		
Average of Test Results:	0.09 mg/m3				
Contaminant Permit Limit:	20.0000 mg/m3				
Test Result Comments:					
Flow Results:	321.000 m3/min	320.000 m3/min	321.000 m3/min		
Average of Flow Results:	320.667 m3/min				
Permitted Flow Limit:	305.00 m3/min				
Out of Compliance Explanation:	Cleaning of bags and repair of drive fan belt may be contributing factors. Other possibilities is having too many doors open on a nice/hot day allowed for less resistance to flow and the belt was set in such a way to allow max flow when doors were closed (increased resistance to flow)				
Plan of Action to Obtain Compliance:	Change the belt shiv to slow down the speed of the fan by 10% or install a variable speed drive				
Flow Result Comments:					
Zinc					
Test Dates:	Apr 18, 2023	Apr 18, 2023	Apr 18, 2023		
Test Results:	0.1500 mg/m3	0.5500 mg/m3	0.1000 mg/m3		
Average of Test Results:	0.267 mg/m3				
Contaminant Permit Limit:	7.0000 mg/m3				
Test Result Comments:					
Flow Results:	321.000 m3/min	320.000 m3/min	321.000 m3/min		
Average of Flow Results:	320.667 m3/min				
Permitted Flow Limit:	305.00 m3/min				
Out of Compliance Explanation:	Cleaning of bags and repair of drive fan belt may be contributing factors. Other possibilities is having too many doors open on a nice/hot day allowed for less resistance to flow and the belt was set in such a way to allow max flow when doors were closed (increased resistance to flow)				
Plan of Action to Obtain Compliance:	Change the belt shiv to slow down the speed of the fan by 10% or install a variable speed drive				
Flow Result Comments:					

47 - Zinc tank associated with the No. 5 nail spin galvanizing line**Particulate Matter**

Test Dates:	May 12, 2023	May 12, 2023	May 12, 2023		
Test Results:	0.1700 mg/m3	0.2300 mg/m3	2.1800 mg/m3		
Average of Test Results:	0.86 mg/m3				
Contaminant Permit Limit:	20.0000 mg/m3				
Test Result Comments:					
Flow Results:	105.000 m3/min	110.000 m3/min	107.000 m3/min		
Average of Flow Results:	107.333 m3/min				
Permitted Flow Limit:	230.00 m3/min				
Flow Result Comments:					

Zinc

Test Dates:	May 12, 2023	May 12, 2023	May 12, 2023		
Test Results:	0.0170 mg/m3	0.0050 mg/m3	0.0070 mg/m3		
Average of Test Results:	0.01 mg/m3				
Contaminant Permit Limit:	7.0000 mg/m3				
Test Result Comments:					
Flow Results:	105.000 m3/min	110.000 m3/min	107.000 m3/min		
Average of Flow Results:	107.333 m3/min				
Permitted Flow Limit:	230.00 m3/min				
Flow Result Comments:					