

SkyD.STP

STP Design Software

By
NJS and NJSEI



SkyD.STP Features

- **Web based application for**

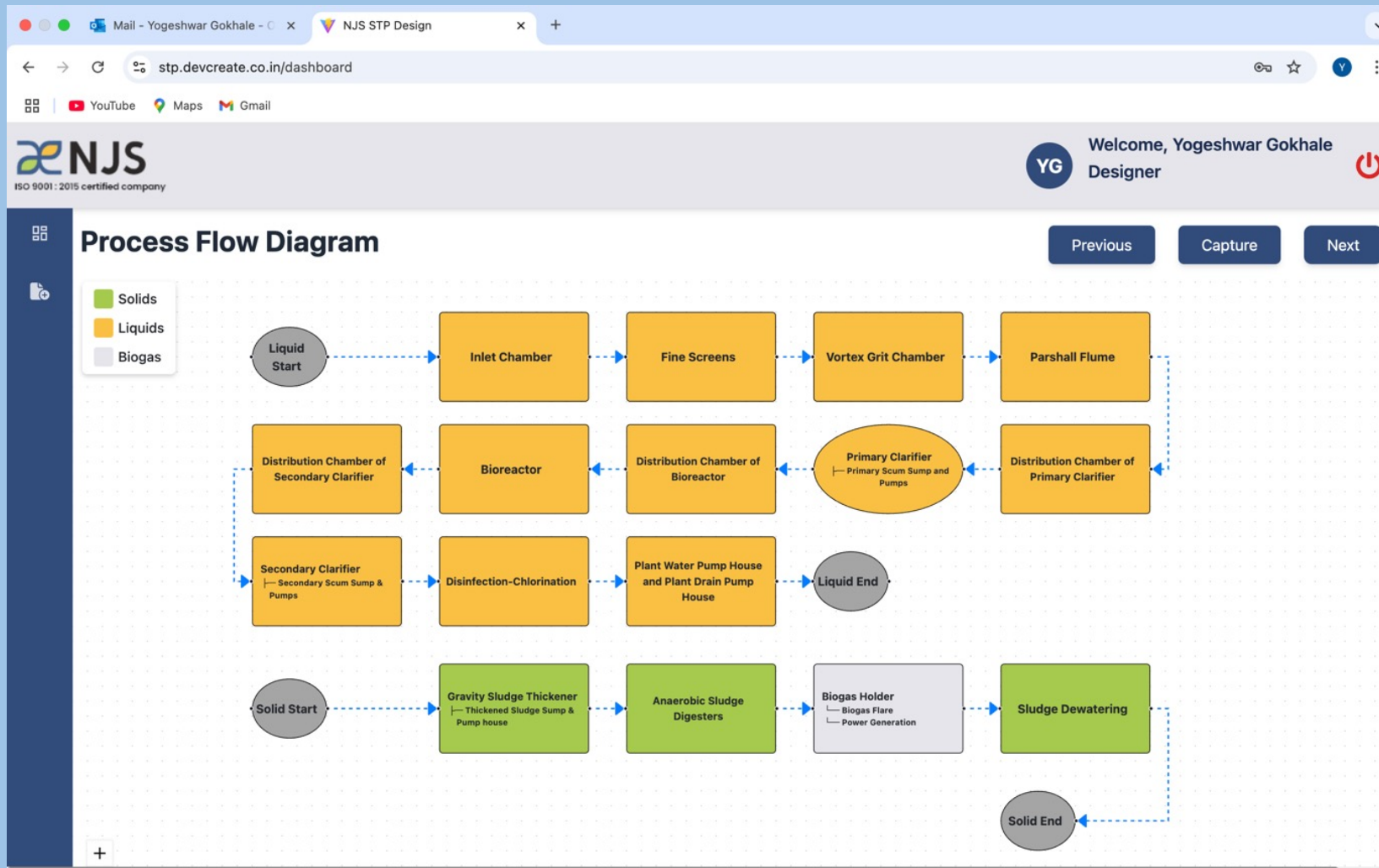
- Process design with automatic generation of PFD
- Hydraulic design with automatic generation of HFD in .dwg format
- Civil GA drawings in .dwg format (under development)

- **Secondary treatment processes**

- MLE / A2O
- SBR
- MBBR / IFAS
- MBR



PFD for A2O with Digester process



Validated calculations with references

Design Parameter	Value	Unit	CPHEEO	Metcalf Eddy	Remark	Review
No. of Grit Chamber Working (Nw) *	2	Nos				
No. of Grit Chamber Standby (Ns) *	1	Nos	100 %			
Diameter Provided (D1) *	4.9	m				
Designed SWD *	2.3	m				
Lower Dia (D2) *	1.5	m				

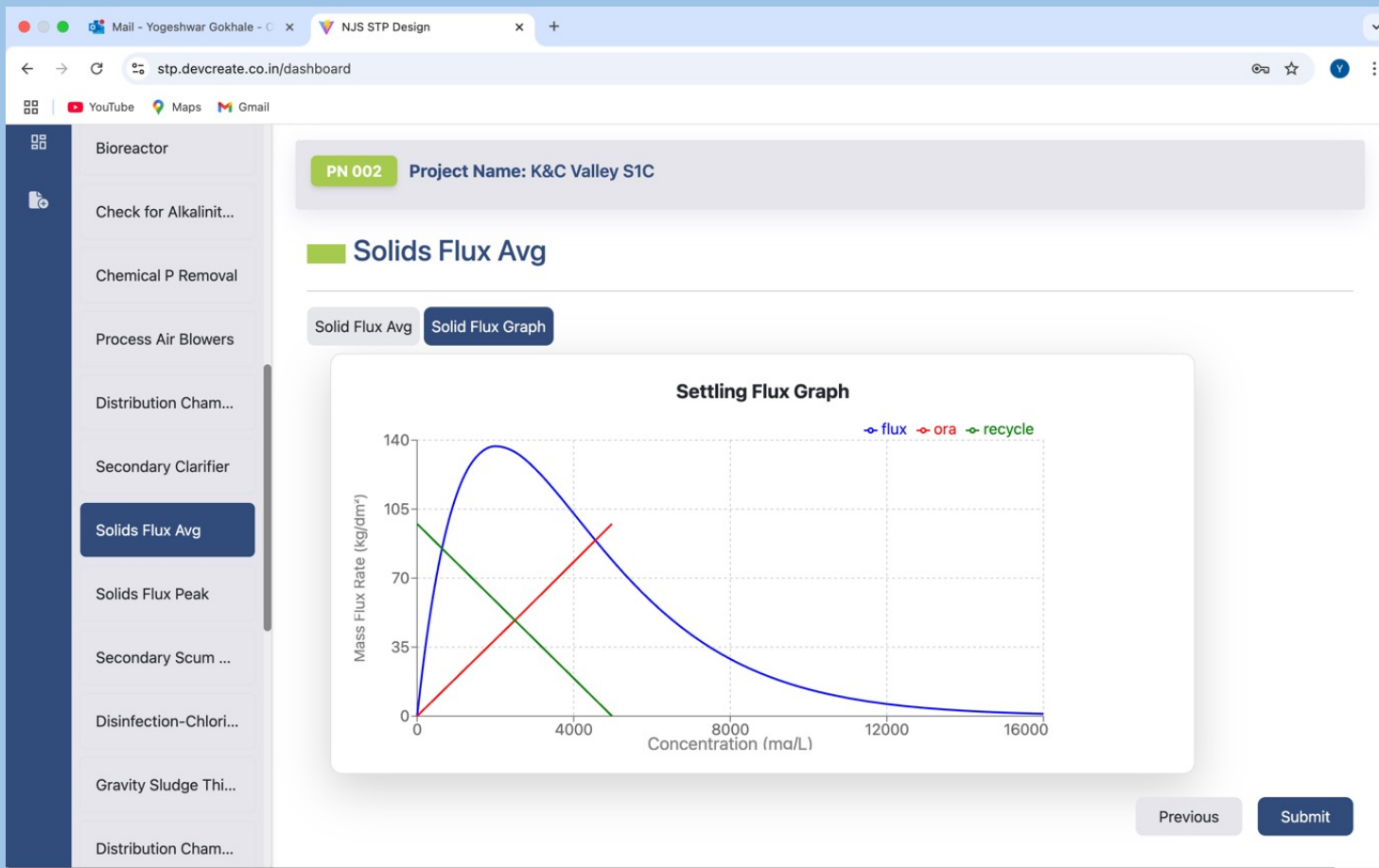
Model No.	0.5A, 0.5B	1.0A, 1.0B	2.5A, 2.5B	4.0A, 4.0B	7.0A, 7.0B	2.0A, 2.0B	12.0A, 12.0B	20.0A, 20.0B	30.0A, 30.0B	50.0A, 50.0B	70.0A, 70.0B	100.0B
Maximum Flow, MLD	2.3	4.5	11.4	18.2	31.8	54.5	90.8	136.2	227.0	317.8	454.0	
Chamber Diameter	1.8	1.8	2.1	2.4	3.0	3.7	4.9	5.5	6.1	7.3	9.8	
Chamber Depth	1.1	1.1	1.4	1.4	1.5	2.0	2.3	2.8	3.5	3.9	3.9	
Grit Hopper Diameter	0.9	0.9	0.9	0.9	0.9	1.5	1.5	1.5	1.5	1.8	2.4	
Grit Hopper Depth (Min.)	1.5	1.5	1.5	1.5	1.7	2.0	2.1	2.1	2.4	2.4	3.0	

Model No.	0.5	1	2.5	4	7	12	20	30	50	70	100
Maximum Flow, MLD	2.3	4.5	11.4	18.2	31.8	54.5	90.8	136.2	227.0	317.8	454.0
Chamber Diameter	1.8	1.8	2.1	2.4	3.1	3.7	4.9	5.5	6.1	7.3	9.8
Chamber Depth	1.1	1.1	1.1	1.2	1.4	1.5	1.7	2.0	2.4	2.4	3.1
Grit Hopper Diameter	0.9	0.9	0.9	0.9	0.9	1.5	1.5	1.5	1.5	1.8	2.4
Grit Hopper Depth (Min.)	1.5	1.5	1.5	1.5	1.5	1.7	2.0	2.1	2.1	2.4	3.0

- On screen references to CPHEEO, GOI and Metcalf & Eddy design guidelines, tables, and graphs; vendor data sheets
- State point calculation and similar validations for design

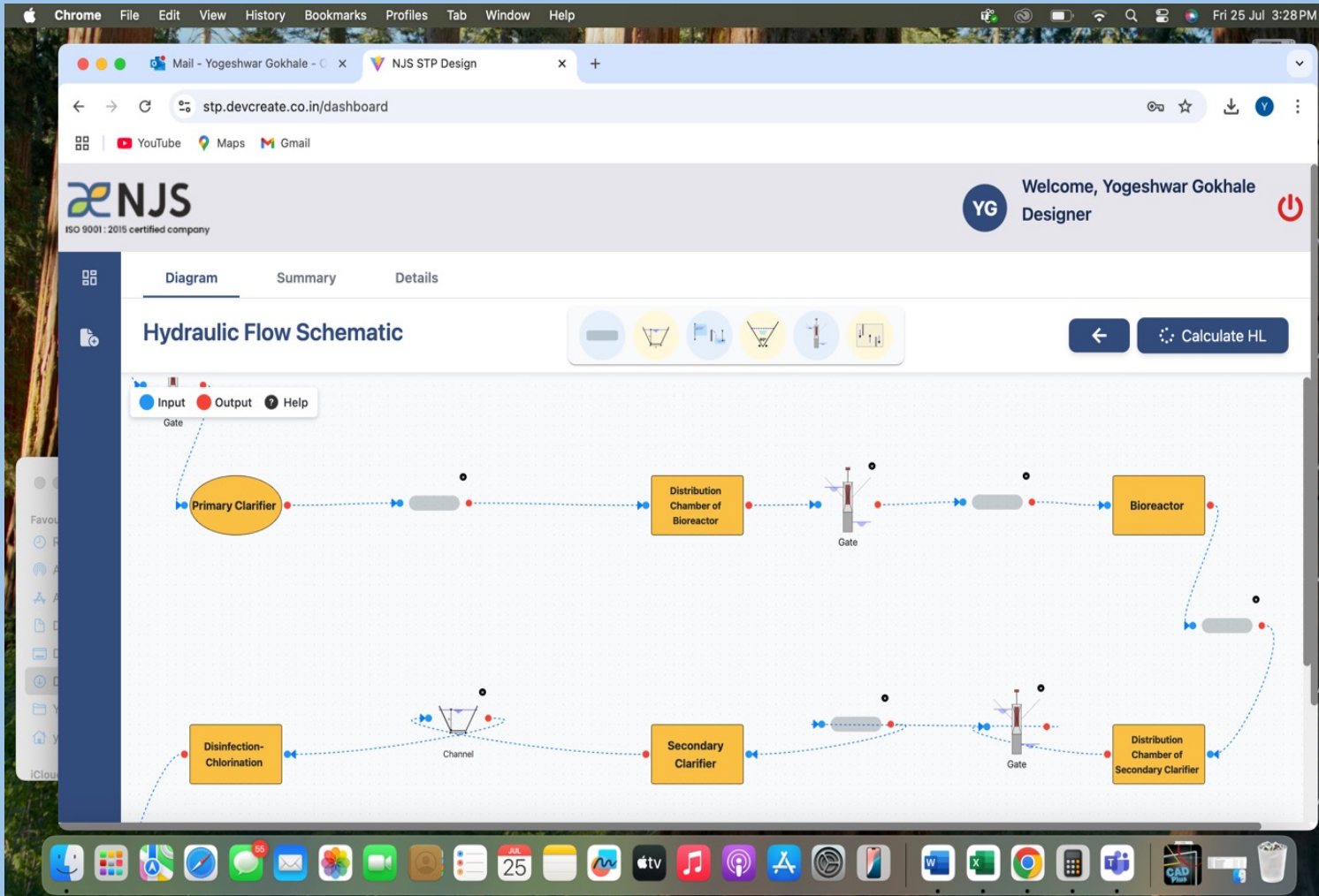


Process Checks



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- State point calculation and similar validations for design

Hydraulic scheme set up



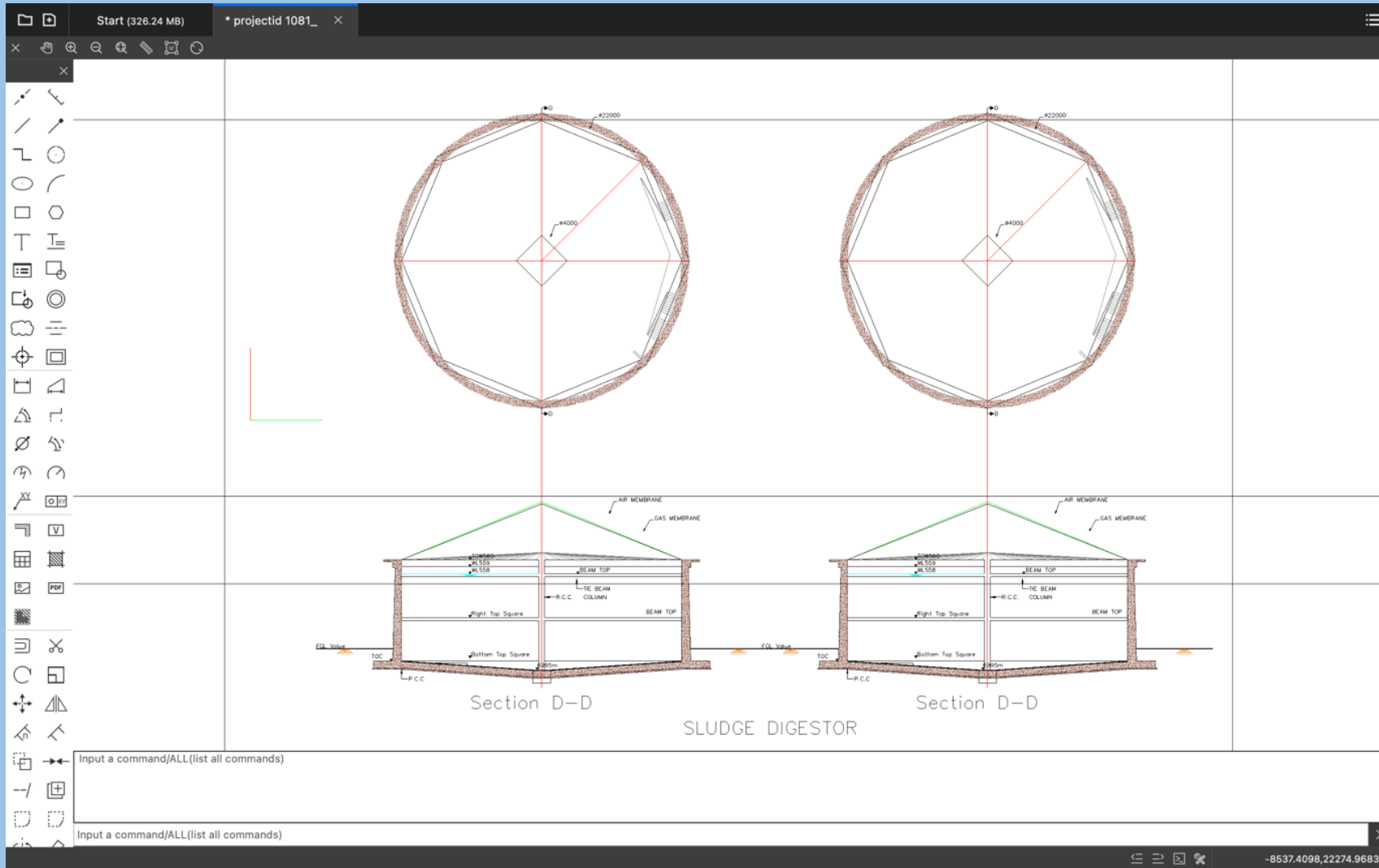
Drag and drop hydraulic elements to create hydraulic schematic

Auto generation of hydraulic calculation report in .xls and .pdf

Auto generation of HFD in .dwg



Auto generated GAD of Anaerobic Digester



- Auto generation of GADs in .dwg format for easy editing
- The GADs are to the scale to the designed dimensions

