

Task Number	Task Description	SENG (hrs)	DENG (hrs)	CINT (hrs)	EINT (hrs)	Total (hrs)
Task 1.0	Research and Preparation	2	5	16	16	39
1.1	Codes and Regulation Research	1	2	7	6	16
1.2	Water Treatment Research	0	2	8	9	19
1.3	WEF Application	1	1	1	1	4
Task 2.0	Site Investigation	8	8	22	22	60
2.1	Site Visit	6	6	10	10	32
2.2	Site Data Analysis	2	2	12	12	28
Task 3.0	Treatment Selection	14	29	51	52	146
3.1	Physical Separation	2	3	6	6	17
3.1.1	<i>Determine Criteria</i>	0	1	1	1	
3.1.2	<i>Develop Alternatives</i>	1	1	4	4	
3.1.3	<i>Eliminate Less Suitable Alternative</i>	1	1	1	1	
3.2	Physical Treatment	2	3	6	6	17
3.2.1	<i>Determine Criteria</i>	0	1	1	1	
3.2.2	<i>Develop Alternatives</i>	1	1	4	4	
3.2.3	<i>Eliminate Less Suitable Alternative</i>	1	1	1	1	
3.3	Chemical Treatment	2	4	8	8	22
3.3.1	<i>Determine Criteria</i>	0	1	1	1	
3.3.2	<i>Develop Alternatives</i>	1	2	6	6	
3.3.3	<i>Eliminate Less Suitable Alternative</i>	1	1	1	1	
3.4	Advanced Treatment	2	5	8	8	23
3.4.1	<i>Determine Criteria</i>	0	1	1	1	
3.4.2	<i>Develop Alternatives</i>	1	3	6	6	
3.4.3	<i>Eliminate Less Suitable Alternative</i>	1	1	1	1	
3.5	Disinfection	2	4	8	8	22
3.5.1	<i>Determine Criteria</i>	0	1	1	1	
3.5.2	<i>Develop Alternatives</i>	1	2	6	6	
3.5.3	<i>Eliminate Less Suitable Alternative</i>	1	1	1	1	
3.6	Brine Handling	2	5	9	9	25
3.6.1	<i>Determine Criteria</i>	0	1	1	1	
3.6.2	<i>Develop Alternatives</i>	1	3	7	7	
3.6.3	<i>Eliminate Less Suitable Alternative</i>	1	1	1	1	
3.7	Creating Treatment Train Alternatives	2	5	6	7	20
3.7.1	<i>Determine Criteria</i>	0	1	1	1	
3.7.2	<i>Develop Alternatives</i>	1	3	4	5	
3.7.3	<i>Select Best Alternative</i>	1	1	1	1	
Task 4.0	Final Design	11	121	35	34	201
4.1	Treatment Processes	2	30	6	9	47
4.2	Site Layout	1	20	7	4	32
4.3	Hydraulic Design	6	56	16	13	91
4.3.1	<i>Lift Station Design</i>	2	23	6	4	
4.3.2	<i>Pump Selection</i>	1	12	4	3	
4.3.3	<i>Pipe Design</i>	2	11	4	4	
4.3.4	<i>Hydraulic Profile Design</i>	1	10	2	2	
4.4	Construction Phasing	1	8	4	4	17
4.5	Public Outreach Plan	1	7	2	4	14
Task 5.0	Cost Analysis	3	10	13	15	41
5.1	Opinion of Probable Construction Cost	1	5	8	2	16
5.2	Operations and Maintenance Cost	1	3	2	10	16
5.3	Life Cycle Cost	1	2	3	3	9
Task 6.0	Project Impacts	2	4	7	8	21
Task 7.0	Project Deliverables	6	15	28	28	77
7.1	30% Deliverable	1	2	5	5	13
7.2	60% Deliverable	1	3	5	5	14
7.3	90% Deliverable	1	4	6	6	17
7.4	Final Deliverable (CENE)	2	3	5	5	15
7.5	WEF Competition Final Report	1	2	5	5	13
7.6	WEF Competition Final Presentation	0	1	2	2	5
Task 8.0	Project Management	13	45	15	15	88
8.1	Meetings	8	15	15	15	53
8.2	Schedule Management	2	15	0	0	17
8.3	Resource Management	3	15	0	0	18
Summary	---	59	237	187	190	673