

*Electronic Supplementary Material*

## **Environmental impact of Aposelemis dam and tunnel water supply project, in NE Crete, Greece**

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# **I**

## **Questionnaires' Format, in English**

**Questionnaire for the investigation of observed environmental impacts due to Aposelemis project  
Lasithi Plateau area**

ATTITUDE - KNOWLEDGE						
1. What is your relation to Lasithi Plateau area?						
Residence <input type="checkbox"/>	Agricultural activities <input type="checkbox"/>	Origin & visit <input type="checkbox"/>	Other <input type="checkbox"/>			
2. In which village of the Lasithi Plateau is your residence / activity?						
K.Metochi <input type="checkbox"/> Ag.Charalambos <input type="checkbox"/> Plati <input type="checkbox"/> Psychro <input type="checkbox"/> Magoulas <input type="checkbox"/> Kaminaki <input type="checkbox"/> Avrakontes <input type="checkbox"/> Ag.Georgios <input type="checkbox"/> Ag.Constantinos <input type="checkbox"/> Mesa Lasithi <input type="checkbox"/> Marmaketo <input type="checkbox"/> Tzermiado <input type="checkbox"/> Lagou <input type="checkbox"/> Pinakiano <input type="checkbox"/> Other: <input type="checkbox"/>						
3. How long do you live / are you active in the area?						
> 20 years <input type="checkbox"/>	20-10 years <input type="checkbox"/>	10-5 years <input type="checkbox"/>	<5 years <input type="checkbox"/>			
4. Are you familiar with Aposelemis project?						
Yes <input type="checkbox"/>	No <input type="checkbox"/>					
PAST OPINION						
5. Which was your attitude/opinion before Aposelemis project's implementation?						
I had objections <input type="checkbox"/>	I was troubled <input type="checkbox"/>	I was indifferent <input type="checkbox"/>	I was in favour of the project <input type="checkbox"/>	Other, please explain to us: <input type="checkbox"/>		
6. In your opinion, did the local community participate (through representatives) in project's design?						
No <input type="checkbox"/>	A little <input type="checkbox"/>	Medium <input type="checkbox"/>	Much <input type="checkbox"/>	Very much <input type="checkbox"/>	I don't know <input type="checkbox"/>	
7. In your opinion, was the expropriation compensation of Potamies-Sfendyli-Avdou-Gonies satisfactory?						
No <input type="checkbox"/>	A little <input type="checkbox"/>	Medium <input type="checkbox"/>	Much <input type="checkbox"/>	Very much <input type="checkbox"/>	I don't know <input type="checkbox"/>	
8. What is your opinion of Sfendyli residents' resettlement?						
A significant problem <input type="checkbox"/>	Unsatisfactory management <input type="checkbox"/>	Unsatisfactory compensation <input type="checkbox"/>	Satisfactory compensation <input type="checkbox"/>	Correct management <input type="checkbox"/>	Difficult but necessary <input type="checkbox"/>	Few residents, thus a small problem <input type="checkbox"/>
9. Have you worked at the project during (or after) the construction period?						
No <input type="checkbox"/>	Yes <input type="checkbox"/>	If yes, in what kind of work? <input type="checkbox"/>				
TODAY OPINION						
10. How do you evaluate the total Aposelemis project today?						
I like it <input type="checkbox"/>	It doesn't interest me <input type="checkbox"/>	I don't like it <input type="checkbox"/>	It disturbs me <input type="checkbox"/>	Other <input type="checkbox"/>		
11. Has your everyday life changed since the project's construction and operation?						
No <input type="checkbox"/>	A little <input type="checkbox"/>	Medium <input type="checkbox"/>	Much <input type="checkbox"/>	Very much <input type="checkbox"/>	Comments: <input type="checkbox"/>	
12. If yes, your everyday life has changed...						
Positively <input type="checkbox"/>	Neutral <input type="checkbox"/>	Negatively <input type="checkbox"/>				
13. How do you evaluate the new landscape?						
Better <input type="checkbox"/>	Indifferent <input type="checkbox"/>	Worse <input type="checkbox"/>				
14. In your opinion, the quality of reservoir's water is...						
Very good <input type="checkbox"/>	Good <input type="checkbox"/>	Medium <input type="checkbox"/>	Poor <input type="checkbox"/>	Very poor <input type="checkbox"/>	If poor, please tell us why: <input type="checkbox"/>	
15. Do you consider the Aposelemis project successful?						
No <input type="checkbox"/>	A little <input type="checkbox"/>	Medium <input type="checkbox"/>	Much <input type="checkbox"/>	Very much <input type="checkbox"/>	Comments: <input type="checkbox"/>	
16. In your opinion, are there any impacts due to the project on your everyday life?						
No <input type="checkbox"/>	Yes, economical <input type="checkbox"/>	Yes, social <input type="checkbox"/>	Yes, environmental <input type="checkbox"/>	Yes, In health <input type="checkbox"/>	Please, explain to us: <input type="checkbox"/>	

ENVIRONMENTAL OBSERVATION						
17. During the <b>agricultural period 2019</b> (after the tunnel's first operation in winter 2019):						
(a) Have you observed any groundwater alterations in wells (than before)?						
<input type="checkbox"/> No difference.						
<input type="checkbox"/> Lower water level and water quantity than before.						
<input type="checkbox"/> Diminished pumping duration period. It dried up earlier than before.						
<input type="checkbox"/> Other. Please, explain to us: <input type="checkbox"/>						
(b) In your opinion, was there sufficient water for irrigation purposes?						
Yes <input type="checkbox"/>	No <input type="checkbox"/>					
(c) In your opinion, do the new artificial reservoirs cover sufficiently area's irrigation needs?						
No <input type="checkbox"/>	A little <input type="checkbox"/>	Medium <input type="checkbox"/>	Much <input type="checkbox"/>	Very much <input type="checkbox"/>	Comments: <input type="checkbox"/>	
(d) In your opinion, does the tunnel's operation affect Plateau's agricultural activities?						
No <input type="checkbox"/>	A little <input type="checkbox"/>	Medium <input type="checkbox"/>	Much <input type="checkbox"/>	Very much <input type="checkbox"/>	If yes, please explain to us: <input type="checkbox"/>	
18. Did you observe improved flood water drainage (due to the tunnel's operation) than before?						
Yes <input type="checkbox"/>	No difference <input type="checkbox"/>	No <input type="checkbox"/>	Comments: <input type="checkbox"/>			
19. In your opinion, the quality of the groundwater of the area is...						
Very good <input type="checkbox"/>	Good <input type="checkbox"/>	Medium <input type="checkbox"/>	Poor <input type="checkbox"/>	Very poor <input type="checkbox"/>	If poor, please tell us why: <input type="checkbox"/>	
20. In your opinion, the quality of the surface water of the area is...						
Very good <input type="checkbox"/>	Good <input type="checkbox"/>	Medium <input type="checkbox"/>	Poor <input type="checkbox"/>	Very poor <input type="checkbox"/>	If poor, please tell us why: <input type="checkbox"/>	
21. Since the tunnel's operation (2019-2020), have you observed any flow alteration in springs of the area (i.e. Kastamonitsa springs, Gonies springs)?						
Yes <input type="checkbox"/>	No <input type="checkbox"/>	I don't know <input type="checkbox"/>	If Yes, please explain to us: <input type="checkbox"/>			
22. Have you observed any environmental alterations due to the project, concerning...						
Animals, birds & insects <input type="checkbox"/>	Plants & trees <input type="checkbox"/>	The ground <input type="checkbox"/>	The water <input type="checkbox"/>	Other <input type="checkbox"/>	Please explain to us: <input type="checkbox"/>	
23. In your opinion, has the landscape of former construction sites been restored?						
Yes <input type="checkbox"/>	Partly <input type="checkbox"/>	No <input type="checkbox"/>	Comments: <input type="checkbox"/>			
24. How do you consider of the areas of excavation materials deposition?						
They disturb me <input type="checkbox"/>	They don't interest me <input type="checkbox"/>	They don't disturb me <input type="checkbox"/>	I like them <input type="checkbox"/>	Comments: <input type="checkbox"/>		
OPINION FOR THE FUTURE						
25. Are you interested in the hypothetical scenario of controlled leisure activities organization at the lakeside area (i.e. catering infrastructures, hiking activities, nature observation etc)?						
Yes <input type="checkbox"/>	No <input type="checkbox"/>					
26. What is your opinion on the hypothetical scenario of project's use for energy production?						
I disagree <input type="checkbox"/>	It doesn't interest me <input type="checkbox"/>	I agree <input type="checkbox"/>	I agree, provided a low price in my energy cost <input type="checkbox"/>			
PERSONAL CHARACTERISTICS						
27. Gender :	Male <input type="checkbox"/>	Female <input type="checkbox"/>				
28. Age group:	< 18 <input type="checkbox"/>	18-24 <input type="checkbox"/>	25-39 <input type="checkbox"/>	40-54 <input type="checkbox"/>	55-64 <input type="checkbox"/>	> 65 <input type="checkbox"/>
29. Marital status:	Married <input type="checkbox"/>		Not married <input type="checkbox"/>	Divorced <input type="checkbox"/>	Widower <input type="checkbox"/>	
30. Educational level:	Elementary school <input type="checkbox"/>	High school <input type="checkbox"/>	Technical studies <input type="checkbox"/>	University studies <input type="checkbox"/>	Postgraduate studies <input type="checkbox"/>	
31. Profession/Occupation:	In the public sector <input type="checkbox"/>		In the private sector <input type="checkbox"/>		Freelancer <input type="checkbox"/>	
	Farmer <input type="checkbox"/>	Housekeeping <input type="checkbox"/>	Pensioner <input type="checkbox"/>	Unemployed <input type="checkbox"/>	Student <input type="checkbox"/>	
32. Residence: <input type="checkbox"/>						

**Questionnaire for the investigation of observed environmental impacts due to Aposelemis project  
Aposelemis dam region**

ATTITUDE - KNOWLEDGE						
1. I live / I activate in the area of Potamies – Avdou - Gonies ...						
Permanently <input type="checkbox"/>	Occasionally <input type="checkbox"/>	Only in the summer period <input type="checkbox"/>	Other <input type="checkbox"/>			
2. How long do you live / are you active in the area?						
> 40 years <input type="checkbox"/>	20-40 years <input type="checkbox"/>	10-20 years <input type="checkbox"/>	5-10 years <input type="checkbox"/>	<5 years <input type="checkbox"/>		
3. Did you acquire any assets that were expropriated due to Aposelemis project implementation?						
No <input type="checkbox"/>	Yes, land area <input type="checkbox"/>	Yes, cultivated land <input type="checkbox"/>	Yes, building <input type="checkbox"/>	Other <input type="checkbox"/>		
PAST OPINION						
4. Did you have objection / hesitation / scepticism before the project's implementation?						
No <input type="checkbox"/>	A little <input type="checkbox"/>	Medium <input type="checkbox"/>	Much <input type="checkbox"/>	Very much <input type="checkbox"/>	If Yes, please tell us why..	
5. In your opinion, did the local community participate (through representatives) in project's design?						
No <input type="checkbox"/>	A little <input type="checkbox"/>	Medium <input type="checkbox"/>	Much <input type="checkbox"/>	Very much <input type="checkbox"/>	Comments:	
6. In your opinion, were the expropriation compensations satisfactory?						
No <input type="checkbox"/>	A little <input type="checkbox"/>	Medium <input type="checkbox"/>	Much <input type="checkbox"/>	Very much <input type="checkbox"/>	Comments:	
7. What is your opinion of Sfendyli residents' resettlement?						
A significant problem <input type="checkbox"/>	Unsatisfactory management <input type="checkbox"/>	Unsatisfactory compensation <input type="checkbox"/>	Satisfactory compensation <input type="checkbox"/>	Correct management <input type="checkbox"/>	Difficult but necessary <input type="checkbox"/>	Few residents, thus a small problem <input type="checkbox"/>
8. Have you worked at the project during (or after) the construction period?						
No <input type="checkbox"/>	Yes <input type="checkbox"/>	If yes, in what kind of work?				
TODAY OPINION						
9. How do you evaluate the total Aposelemis project today?						
I like it <input type="checkbox"/>	It doesn't interest me <input type="checkbox"/>	I don't like it <input type="checkbox"/>	It disturbs me <input type="checkbox"/>	Other <input type="checkbox"/>		
10. Has your everyday life changed since the project's implementation?						
No <input type="checkbox"/>	A little <input type="checkbox"/>	Medium <input type="checkbox"/>	Much <input type="checkbox"/>	Very much <input type="checkbox"/>	Comments:	
11. If yes, your everyday life has changed...						
Positively <input type="checkbox"/>	Neutral <input type="checkbox"/>	Negatively <input type="checkbox"/>				
12. How do you evaluate the new landscape?						
Better <input type="checkbox"/>	Indifferent <input type="checkbox"/>	Worse <input type="checkbox"/>				
13. In your opinion, the quality of reservoir's water is...						
Very good <input type="checkbox"/>	Good <input type="checkbox"/>	Medium <input type="checkbox"/>	Poor <input type="checkbox"/>	Very poor <input type="checkbox"/>	If poor, please tell us why:	
14. How do you feel living near the dam?						
I feel good <input type="checkbox"/>	I do not care <input type="checkbox"/>	I feel insecurity <input type="checkbox"/>	Other <input type="checkbox"/>			
15. During winter periods of 2019 & 2020, that the dam's reservoir was filled with water...						
I was glad it was filled <input type="checkbox"/>	I was uninterested <input type="checkbox"/>	I felt insecurity <input type="checkbox"/>	Other <input type="checkbox"/>			

16. Concerning the Emergency Plan (of controlled dam's overflow) during winter periods of 2019 & 2020:						
(a) Were you satisfied of state management?						
No <input type="checkbox"/>	A little <input type="checkbox"/>	Medium <input type="checkbox"/>	Much <input type="checkbox"/>	Very much <input type="checkbox"/>	Comments:	
(b) Did you feel worry / anxiety / stress / fear during the cases of emergency?						
No <input type="checkbox"/>	A little <input type="checkbox"/>	Medium <input type="checkbox"/>	Much <input type="checkbox"/>	Very much <input type="checkbox"/>	Comments:	
17. Do you consider the Aposelemis project successful?						
No <input type="checkbox"/>	A little <input type="checkbox"/>	Medium <input type="checkbox"/>	Much <input type="checkbox"/>	Very much <input type="checkbox"/>	Comments:	
18. In your opinion, are there any impacts due to the project on your everyday life?						
No <input type="checkbox"/>	Yes, economical <input type="checkbox"/>	Yes, social <input type="checkbox"/>	Yes, environmental <input type="checkbox"/>	Yes, In health <input type="checkbox"/>	Please, explain to us:	
ENVIRONMENTAL OBSERVATION						
19. Have you observed any environmental alterations due to the project, concerning...						
<input type="checkbox"/> Animals & birds. Please, explain to us:						
<input type="checkbox"/> Plants & trees. Please, explain to us:						
<input type="checkbox"/> More insects. (Especially during summer time)						
<input type="checkbox"/> Higher humidity levels						
<input type="checkbox"/> Other:						
20. Since the tunnel's operation (2019-2020), have you observed any flow alteration in springs of the area (i.e. Kastamonitsa springs, Gonies springs)?						
Yes <input type="checkbox"/>	No <input type="checkbox"/>	I don't know <input type="checkbox"/>	If Yes, please explain to us:			
21. Have you observed any groundwater alterations in wells, due to the project?						
No <input type="checkbox"/>	Decreased volume <input type="checkbox"/>	Lower water level <input type="checkbox"/>	Completely dry well <input type="checkbox"/>	Other <input type="checkbox"/>	Please, explain to us:	
22. In your opinion, has the landscape of former construction sites been restored?						
Yes <input type="checkbox"/>	Partly <input type="checkbox"/>	No <input type="checkbox"/>	Comments:			
23. How do you consider of the areas of excavation materials deposition?						
They disturb me <input type="checkbox"/>	They don't interest me <input type="checkbox"/>	They don't disturb me <input type="checkbox"/>	I like them <input type="checkbox"/>	Comments:		
24. Which lakeside activities take place at the dam's area?						
Hiking <input type="checkbox"/>	Fishing <input type="checkbox"/>	Livestock <input type="checkbox"/>	Agriculture <input type="checkbox"/>	Other / Comments :		
OPINION FOR THE FUTURE						
25. In your opinion, could the new lake upgrade certain cultural activities in the area (i.e. lakeside 1 <sup>st</sup> running race organization in August 15, 2019)?						
Yes <input type="checkbox"/>	No <input type="checkbox"/>					
26. Are you interested in the hypothetical scenario of controlled leisure activities organization at the lakeside area (i.e. catering infrastructures, hiking activities, nature observation etc)?						
Yes <input type="checkbox"/>	No <input type="checkbox"/>					
27. What is your opinion on the hypothetical scenario of project's use for energy production?						
I disagree <input type="checkbox"/>	It doesn't interest me <input type="checkbox"/>	I agree <input type="checkbox"/>	I agree, provided a low price in my energy cost <input type="checkbox"/>			
PERSONAL CHARACTERISTICS						
28. Gender :	Male <input type="checkbox"/>	Female <input type="checkbox"/>				
29. Age group :	< 18 <input type="checkbox"/>	18-24 <input type="checkbox"/>	25-39 <input type="checkbox"/>	40-54 <input type="checkbox"/>	55-64 <input type="checkbox"/>	> 65 <input type="checkbox"/>
30. Marital status:	Married <input type="checkbox"/>	Not married <input type="checkbox"/>	Divorced <input type="checkbox"/>	Widowed <input type="checkbox"/>		
31. Educational level:	Elementary school <input type="checkbox"/>	High school <input type="checkbox"/>	Technical studies <input type="checkbox"/>	University studies <input type="checkbox"/>	Postgraduate studies <input type="checkbox"/>	
32. Profession/Occupation:	In the public sector <input type="checkbox"/>		In the private sector <input type="checkbox"/>		Freelancer <input type="checkbox"/>	
	Farmer <input type="checkbox"/>	Housekeeping <input type="checkbox"/>	Pensioner <input type="checkbox"/>	Unemployed <input type="checkbox"/>	Student <input type="checkbox"/>	
33. Residence :						

**Questionnaire for the investigation of observed environmental impacts due to Aposelemis project**  
**Downstream area: Aposelemis river estuary and wetland**

ATTITUDE - KNOWLEDGE				
1. I live / I activate in the area of Aposelemis river estuary ...				
Permanently <input type="checkbox"/>	Occasionally <input type="checkbox"/>	Only in the summer period <input type="checkbox"/>	Other <input type="checkbox"/>	
2. How long do you live / are you active in the area?				
> 20 years <input type="checkbox"/>	20-10 years <input type="checkbox"/>	10-5 years <input type="checkbox"/>	<5 years <input type="checkbox"/>	
3. Are you familiar with Aposelemis project?				
Yes <input type="checkbox"/>	No <input type="checkbox"/>			
ENVIRONMENTAL OBSERVATION				
4. During the <b>last 6 years</b> (since Aposelemis dam's construction upstream) :				
(a) Have you observed any alteration of the river's flow?				
Reduced streamflow <input type="checkbox"/>	No difference <input type="checkbox"/>	Increased streamflow <input type="checkbox"/>	I don't know <input type="checkbox"/>	Comments:
(b) In your opinion, river water quality at the estuary is ... (than before)				
Worse <input type="checkbox"/>	The same <input type="checkbox"/>	Better <input type="checkbox"/>	I don't know <input type="checkbox"/>	Comments:
(c) Have you observed any wetland alteration?				
<input type="checkbox"/> Of Animals / Birds / Insects? Please, explain to us:				
<input type="checkbox"/> Of Plants / Trees? Please, explain to us:				
<input type="checkbox"/> Of the Ground? Please, explain to us:				
<input type="checkbox"/> Of the Water? Please, explain to us:				
<input type="checkbox"/> Of Other? Please, explain to us:				
<input type="checkbox"/> No difference.				
(d) Have you observed any groundwater alteration in wells (during the last 6 years than before)?				
<input type="checkbox"/> Deteriorated quantity. Reduced water volume and lower groundwater level.				
<input type="checkbox"/> Deteriorated quality. Increased brackish characteristics.				
<input type="checkbox"/> The well has been dried up.				
<input type="checkbox"/> No difference.				
<input type="checkbox"/> Other. Please, explain to us:				
(e) Have you observed any flow alteration in springs of the area?				
Yes <input type="checkbox"/>	No <input type="checkbox"/>	I don't know <input type="checkbox"/>	Comments:	
(f) Have you observed any alteration of the coast front?				
Reduced width <input type="checkbox"/>	Increased width <input type="checkbox"/>	No difference <input type="checkbox"/>	Comments:	
(g) Have you observed any alteration of the landscape?				
Yes <input type="checkbox"/>	No <input type="checkbox"/>	I don't know <input type="checkbox"/>	Comments:	

5. Especially during <b>recent year 2019</b> and forward, have you observed any groundwater alteration in wells, compared with former years 2014-2018?						
<input type="checkbox"/> Improved quantity. Increased water volume in wells than period 2014-2018.						
<input type="checkbox"/> Improved quality. Decreased water's brackish characteristics in wells than period 2014-2018.						
<input type="checkbox"/> No difference.						
<input type="checkbox"/> I don't know.						
<input type="checkbox"/> Other. Please, explain to us:						
TODAY OPINION						
6. In your opinion, are there any impacts due to the project on activities (i.e. agricultural, tourist etc) in your area?						
No <input type="checkbox"/>	A little <input type="checkbox"/>	Medium <input type="checkbox"/>	Much <input type="checkbox"/>	Very much <input type="checkbox"/>	Please, explain to us:	
7. In your opinion, is water for irrigation purposes sufficient in your area?						
Yes <input type="checkbox"/>	No <input type="checkbox"/>	Please, explain to us:				
8. In your opinion, is the supplied drinking water sufficient in your area?						
Yes <input type="checkbox"/>	No <input type="checkbox"/>	Please, explain to us:				
9. In your opinion, are there any general impacts due to the Aposelemis project?						
No <input type="checkbox"/>	Yes, economical <input type="checkbox"/>	Yes, social <input type="checkbox"/>	Yes, environmental <input type="checkbox"/>	Yes, In health <input type="checkbox"/>	Please, explain to us:	
10. In your opinion, have the necessary mitigation/prevention/restoration measures been applied in the area?						
No <input type="checkbox"/>	A little <input type="checkbox"/>	Medium <input type="checkbox"/>	Much <input type="checkbox"/>	Very much <input type="checkbox"/>	Comments:	
11. Do you consider the Aposelemis project successful?						
No <input type="checkbox"/>	A little <input type="checkbox"/>	Medium <input type="checkbox"/>	Much <input type="checkbox"/>	Very much <input type="checkbox"/>	Comments:	
OPINION FOR THE FUTURE						
12. In your opinion, what is the future for the wetland, considering the implementation of the dam upstream?						
It will be degraded <input type="checkbox"/>	It will stay as it is today <input type="checkbox"/>	It will be improved <input type="checkbox"/>	I don't know <input type="checkbox"/>	Comments:		
PERSONAL CHARACTERISTICS						
13. Gender :	Male <input type="checkbox"/>	Female <input type="checkbox"/>				
14. Age group:	< 18 <input type="checkbox"/>	18-24 <input type="checkbox"/>	25-39 <input type="checkbox"/>	40-54 <input type="checkbox"/>	55-64 <input type="checkbox"/>	> 65 <input type="checkbox"/>
15. Marital status:	Married <input type="checkbox"/>		Not married <input type="checkbox"/>	Divorced <input type="checkbox"/>	Widowed <input type="checkbox"/>	
16. Educational level:	Elementary school <input type="checkbox"/>	High school <input type="checkbox"/>	Technical studies <input type="checkbox"/>	University studies <input type="checkbox"/>	Postgraduate studies <input type="checkbox"/>	
17. Profession/Occupation:	Public sector <input type="checkbox"/>	Private sector <input type="checkbox"/>	Freelancer <input type="checkbox"/>	Pensioner <input type="checkbox"/>	Housekeeping <input type="checkbox"/>	
	Unemployed <input type="checkbox"/>	Student <input type="checkbox"/>	Farmer <input type="checkbox"/>			
18. Residence:						

**Questionnaire for the investigation of observed environmental impacts due to Aposelemis project**  
**Cities of project's water supply: Heraklion, Agios Nikolaos & Hersonissos**

ATTITUDE - KNOWLEDGE					
1. I live / I activate in the city of ...					
Heraklion <input type="checkbox"/>	Agios Nikolaos <input type="checkbox"/>	Hersonissos <input type="checkbox"/>			
2. I live / I activate in the area...					
Permanently <input type="checkbox"/>	Occasionally <input type="checkbox"/>	Only in the summer period <input type="checkbox"/>	Other <input type="checkbox"/>		
3. Are you aware of water supply's origin (in your house or business)?					
Yes <input type="checkbox"/>	No <input type="checkbox"/>	If Yes, please tell us:			
4. Are you familiar with Aposelemis project?					
Yes <input type="checkbox"/>	No <input type="checkbox"/>				
OPINION - OBSERVATION					
5. During the time period <i>before year 2015</i> :					
(a) Did drinking water supply quantity problems exist in your region?					
No <input type="checkbox"/>	A little <input type="checkbox"/>	Medium <input type="checkbox"/>	Much <input type="checkbox"/>	Very much <input type="checkbox"/>	Comments:
(b) Were there any interruption events of water supply in your region, due to water shortage?					
Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments:			
(c) Did you drink tap water?					
Yes, with filter <input type="checkbox"/>	Yes, without filter <input type="checkbox"/>	No, bottled water only <input type="checkbox"/>	Other <input type="checkbox"/>		
(d) Did water supply quality problems exist in your region?					
No <input type="checkbox"/>	A little <input type="checkbox"/>	Medium <input type="checkbox"/>	Much <input type="checkbox"/>	Very much <input type="checkbox"/>	Comments:
6. During time period of years <i>2015 - 2018</i> :					
(a) Did drinking water supply quantity problems exist in your region?					
No <input type="checkbox"/>	A little <input type="checkbox"/>	Medium <input type="checkbox"/>	Much <input type="checkbox"/>	Very much <input type="checkbox"/>	Comments:
(b) Were there any interruption events of water supply in your region, due to water shortage?					
Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments:			
(c) Did you drink tap water?					
Yes, with filter <input type="checkbox"/>	Yes, without filter <input type="checkbox"/>	No, bottled water only <input type="checkbox"/>	Other <input type="checkbox"/>		
(d) Did water supply quality problems exist in your region?					
No <input type="checkbox"/>	A little <input type="checkbox"/>	Medium <input type="checkbox"/>	Much <input type="checkbox"/>	Very much <input type="checkbox"/>	Comments:
7. <i>Today</i> , during the time period of years <i>2019 - 2020</i> :					
(a) Do drinking water supply quantity problems exist in your region?					
No <input type="checkbox"/>	A little <input type="checkbox"/>	Medium <input type="checkbox"/>	Much <input type="checkbox"/>	Very much <input type="checkbox"/>	Comments:
(b) Are there any interruption events of water supply in your region, due to water shortage?					
Yes <input type="checkbox"/>	No <input type="checkbox"/>	Comments:			

(c) Do water supply quality problems exist in your region?							
No <input type="checkbox"/>	A little <input type="checkbox"/>	Medium <input type="checkbox"/>	Much <input type="checkbox"/>	Very much <input type="checkbox"/>	Comments:		
(d) Do you drink tap water?							
Yes, with filter <input type="checkbox"/>	Yes, without filter <input type="checkbox"/>	No, bottled water only <input type="checkbox"/>	Other <input type="checkbox"/>				
(e) If No (if you don't drink tap water), please tell us why							
<input type="checkbox"/> In my opinion, tap water is not potable, due to poor supply network and storage conditions.							
<input type="checkbox"/> I don't like water quality / taste, due to chemical treatment (i.e. chlorination etc).							
<input type="checkbox"/> I don't like water quality / taste, due to brackish characteristics (salty water).							
<input type="checkbox"/> I don't trust tap water origin. (In my opinion, the water from the dam and/or wells is of poor quality)							
<input type="checkbox"/> I am accustomed to drink bottled water.							
<input type="checkbox"/> Other :							
8. In your opinion, has the implementation of Aposelemis project affected activities in your area (i.e. residence, tourism, catering, business etc)?							
Yes, positively <input type="checkbox"/>	Yes, negatively <input type="checkbox"/>	No <input type="checkbox"/>	Please, explain to us:				
9. In your opinion, are there any general impacts due to the Aposelemis project?							
No <input type="checkbox"/>	Yes, economical <input type="checkbox"/>	Yes, social <input type="checkbox"/>	Yes, on the environment <input type="checkbox"/>	If Yes, please explain to us:			
10. Do you consider the Aposelemis project successful?							
No <input type="checkbox"/>	A little <input type="checkbox"/>	Medium <input type="checkbox"/>	Much <input type="checkbox"/>	Very much <input type="checkbox"/>	Comments:		
OPINION FOR THE FUTURE – WILLINGNESS TO PAY APPROACH (Application in cases that don't drink tap water)							
11. An estimation of your annual costs on bottled water purchase, reaches the value of...							
<100 € <input type="checkbox"/>	100-200 € <input type="checkbox"/>	200-300 € <input type="checkbox"/>	300-400 € <input type="checkbox"/>	400-500 € <input type="checkbox"/>	>500 € <input type="checkbox"/>	Comments:	
12. In your opinion, does bottled water consumption burden the environment (i.e. discarded plastic bottles) :							
No <input type="checkbox"/>	A little <input type="checkbox"/>	Medium <input type="checkbox"/>	Much <input type="checkbox"/>	Very much <input type="checkbox"/>	Comments:		
13. Are you interested in the improvement of your area's water supply network (i.e. new pipes, building top water tanks' removal etc), so that you can drink tap water?							
No <input type="checkbox"/>	A little <input type="checkbox"/>	Medium <input type="checkbox"/>	Much <input type="checkbox"/>	Very much <input type="checkbox"/>	Comments:		
14. Which is the total amount you are willing to pay for the supply network's improvement?							
Nothing <input type="checkbox"/>	50 € <input type="checkbox"/>	100 € <input type="checkbox"/>	200 € <input type="checkbox"/>	300 € <input type="checkbox"/>	400 € <input type="checkbox"/>	>500 € <input type="checkbox"/>	Comments:
15. Would you prefer a municipal payment..							
Annual (once) <input type="checkbox"/>	Monthly (in parts) <input type="checkbox"/>	Other / Comments:					
PERSONAL CHARACTERISTICS							
16. Gender :	Male <input type="checkbox"/>	Female <input type="checkbox"/>					
17. Age group:	< 18 <input type="checkbox"/>	18-24 <input type="checkbox"/>	25-39 <input type="checkbox"/>	40-54 <input type="checkbox"/>	55-64 <input type="checkbox"/>	> 65 <input type="checkbox"/>	
18. Marital status:	Married <input type="checkbox"/>	Not married <input type="checkbox"/>	Divorced <input type="checkbox"/>	Widowed <input type="checkbox"/>			
19. Educational level:	Elementary school <input type="checkbox"/>	High school <input type="checkbox"/>	Technical studies <input type="checkbox"/>	University studies <input type="checkbox"/>	Postgraduate studies <input type="checkbox"/>		
20. Profession/Occupation:	Public sector <input type="checkbox"/>	Private sector <input type="checkbox"/>	Freelancer <input type="checkbox"/>	Pensioner <input type="checkbox"/>	Housekeeping <input type="checkbox"/>		
	Unemployed <input type="checkbox"/>	Student <input type="checkbox"/>	Farmer <input type="checkbox"/>				
21. Residence :							

## **II**

### **Additional Photographic Material**



**Fig.S1** Aposelemis reservoir under full capacity conditions (January 2020).



**Fig.S2** Aposelemis dam controlled overflow procedure (January 2020).



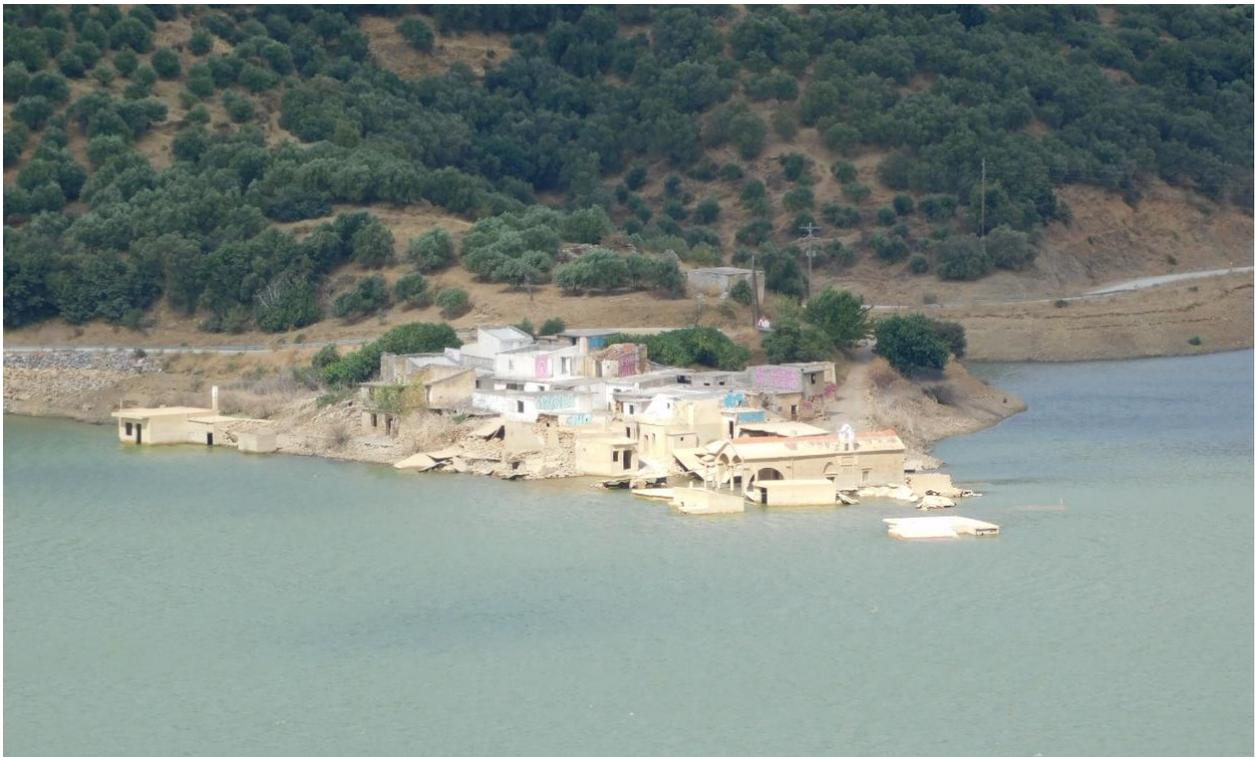
**Fig.S3** Aposelemis dam and reservoir, under full capacity conditions (2020). Photo taken by Spyros Lianakis and displayed with his permission.



**Fig.S4** Aposelemis reservoir in early Spring 2020.



**Fig.S5** Sfendyli flooded village in Aposelemis reservoir, under full capacity conditions (January 2020). Whether the colourful graphics on building walls consist vandalism or art expression is a matter of opinion. At the same time, the drawing of airbnb logo (on the upper left building) creates a caustic statement that reflects modern Hellenic society's questioning.



**Fig.S6** Sfendyli village in Aposelemis reservoir, after the summer period (early September 2020).



**Fig.S7** Flooded Sfendyli village from above (2020). Photo taken by Spyros Lianakis and displayed with his permission.



**Fig.S8** View of the Aposelemis reservoir through a window of desolated Sfendyli village (2020). Photo taken by Spyros Lianakis and displayed with his permission.



**Fig.S9** NW part of Lasithi Plateau from above (Spring 2020). The figure illustrates Chavgas stream. Sinkhole isolation work at the road's bridge puts a stop to the streamflow. At the middle right Chonos sinkhole can be seen. At the bottom left, part of the main trench of the project is illustrated. Photo taken by Spyros Lianakis and displayed with his permission.



**Fig.S10** SE part of Lasithi Plateau from above (Spring 2020). The figure illustrates the two artificial reservoirs for irrigation purposes, as Aposelemis project's compensation measure. Photo taken by Spyros Lianakis and displayed with his permission.



**Fig.S11** Flooded Lasithi Plateau in early January 2020. The landscape is reflected on the flood water. Photo taken by Spyros Lianakis and displayed with his permission.



**Fig.S12** Flooded Lasithi Plateau (early January 2020). Photo taken by Spyros Lianakis and displayed with his permission.



**Fig.S13** Lasithi Plateau in late January 2020, while the flood water is receding.



**Fig.S14** Same as above.



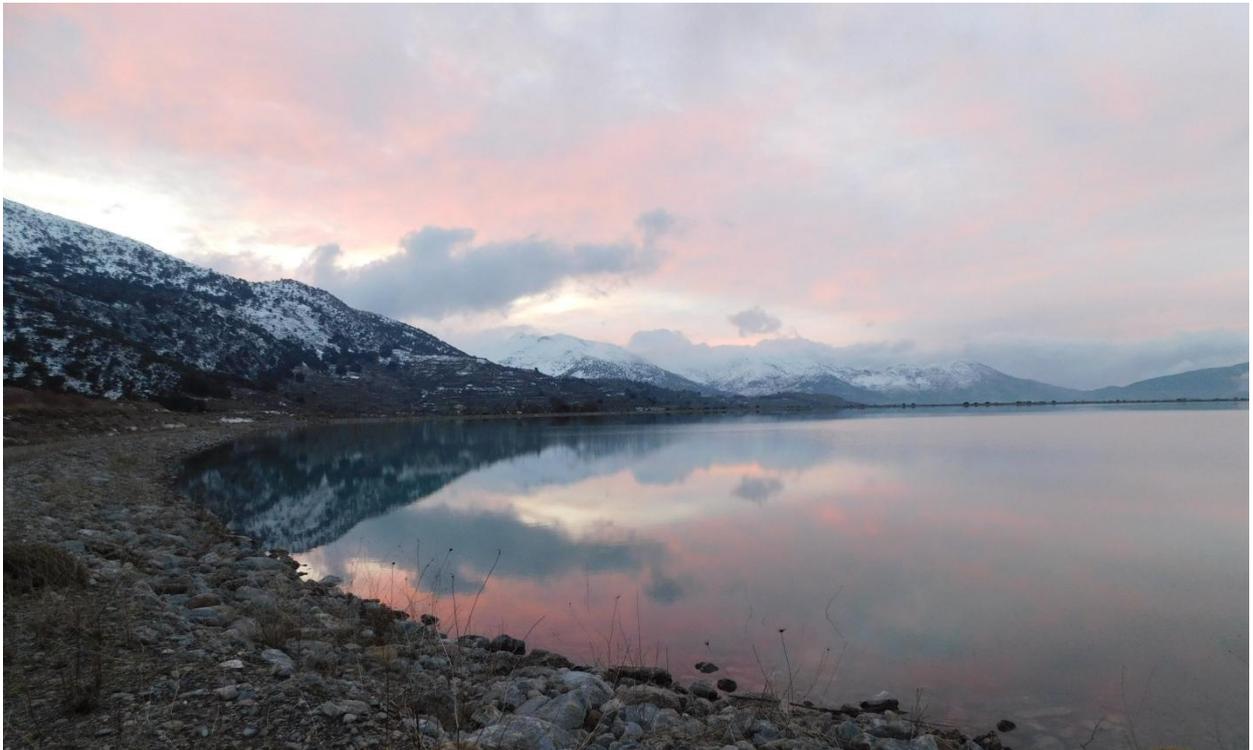
**Fig.S15** Lasithi Plateau under snow conditions (February 2020). The figure illustrates the main trench of the project.



**Fig.S16** Sinkhole isolation work in Lasithi Plateau, under snow conditions (February 2020).



**Fig.S17** Lasithi Plateau under snow conditions (January 2021). Photo taken by Spyros Lianakis and displayed with his permission.



**Fig.S18** Artificial reservoir in SE Lasithi Plateau for irrigation purposes, as Aposelemis project's compensation measure (January 2020).