

6.4 Compliance with Supervision Monitoring

The Concessionaire is complying with the Supervision observations. Between July and December 2017, the Supervision graded each Functional Unit according to its performance. From the results, it can be interpreted that the Concessionaire is having an adequate environmental and social management. The lowest grade is 84% for UF2 and the highest rate is 95% for UF5.

Table 7 Compliance with Supervision monitoring





	July	August	September	October	November	December	Average
UF 1	97%	94%	96%	87%	90%	92%	93%
UF 2	83%	82%	86%	80%	85%	90%	84%
UF 3,1	92%	92%	93%	93%	95%	94%	93%
UF 3,2	85%	92%	90%	80%	85%	86%	86%
UF 4	91.3%	92%	95%	95%	93%	96%	94%
UF5	95%	93.5%	95%	97%	93%	95%	95%






6.5 Action Plan






To date, the Action Plan has fourteen (14) activities. Four (4) of them correspond to “on track” activities, which need to be implemented during the full extension of the construction phase, one (1) is closed and nine (9) are new actions proposed after the site visit and the document review. The current status of the activities are shown in Table 8 and has been evaluated with the following color coding.




 Solved.
  On track
  Pending
  New Action

Table 8 Action Plan Monitoring

Proposed Action (As set in the ESDD)	Proposed Deadline	Current Status (Updated December 2017)	Color code
1 Compensation – Resettlement. The system for social compensation offered by the Project to the communities located along the road is not clear. UF: ALL PS/EP:PS5	Biannual – Next Envi. And social report. (July 2018)	Socio-economic compensations are being performed under the Socioeconomic Compensation Plan, which complies with Resolution 545 of 2015. The real estate portfolio and the neighborhood minutes are being developed. The compensation will be evaluated in parallel with the property acquisition process. Until June 2017, there are 13 family units that need to be compensated. 2 in UF1, 7 in UF3.1, 3 in UF3.2 and 1 in UF4.	
2 Supply Chain. There is no evidence in the ESDD that the source of the supplies is directly generated by the concessionaire or the suppliers, and given the case, if these ones have the permits required, in such a way that the habitat is not going to be affected negatively. UF: ALL PS/EP:PS6	Biannual – Next Envi. And social report. (July 2018)	The Concessionaire has submitted the certificates of the suppliers, and they comply with legal requirements. The documents were verified for all UFs and will be evaluated during all construction phase.	
3 Materials disposal. The documentation for the design of the rubble and excavation material Management Area (ZODME) was not at the level of a detail design. UF: All PS/EP:PS6	Biannual – Next Envi. And social report. (July 2018)	To date, the following ZODMES are being used: Remolinos 1B, Mirolindo, El Cuervo (todos), Calamar, Santa Ana, San Alejo, Tatiana, Monserrate, El Saibo, Leticia, Botija, Américas, Guadalajara, Ivan Dario, Vitrina and Coconi. They are meeting the technical specifications and designs approved by the environmental authority. The material disposal will be evaluated during all the construction phase.	
4 Archaeology: According to the results obtained during the archeological field studies phase, which determined that the Project area has an archeological potential qualified as medium-high, and estimated the probability of	Biannual – Next Envi. And social	In the UFs under construction, the Concessionaire has an Archaeological Management Plan approved by the ICANH which includes monitoring and rescue activities.	

Proposed Action (As set in the ESDD)	Proposed Deadline	Current Status (Updated December 2017)	Color code
<p>archeological findings, the area is considered to have a risk of significant findings. UF: All PS/EP:PS8</p>	report. (July 2018)	To date, there are more than 57 professionals involved in the Project. Likewise, interagency agreements have been made in cultural centers and museums. However, there is still a lot of archaeological rescue pending to be done. Please refer to Annex 1 for further information.	
<p>5 Environmental Compliance Reports (ICAs) For the next monitoring report, Arup recommends the Concessionaire to submit the second ICA of UF1 and the first ICA of UF2.1, UF2.3 and UF3.2. These reports should be presented after six months of construction start date of works for the Functional Units with EIAs.</p>	December 2017	The Concessionaire submitted the ICA reports that were scheduled for this monitoring period. Arup reviewed the submission letters to the ANLA for the 1 st and 2 nd report of UF2.1 and UF2.3, 2 nd report of UF1, and 1 st report of UF2.1 and UF2.3.	
<p>6 Industrial water treatment system – Exit Portal -Irra Tunnel Despite the Concessionaire has a temporary sedimentation system at the exit portal, it could be improved. In Arup's opinion, the Concessionaire needs to implement a permanent primary treatment, capable to attend the infiltration flow, which was estimated to be between 0.0-3.0 l/s. Up to date, the Concessionaire is not complying with the water treatment system established in the license modification (Resolution 0061, January 2017)</p>	September 2017	The Concessionaire implemented an industrial water treatment, which included the elements established in the Environmental License. In addition, the Concessionaire is performing monitoring campaigns at the discharge point to control water quality.	
<p>7 Hazardous materials management, Exit portal Tesalia Tunnel, UF2 The Concessionaire should improve the ACPM supply at the exit portal of Tesalia Tunnel with an additional protective barrier.</p>	Immediately	During the site visit, Arup evidenced that the hazardous materials management still needs to be improved. The storage room is under its capacity and there is a risk of spills and soil contamination.	
<p>8 Watercourse protection – Risaralda and Totuy river banks, UF1 The Concessionaire is obliged to recover the Risaralda and Totuy river banks in UF1 due to the bridges construction in this sector. The bridges are already finished and the Concessionaire should begin recovery activities</p>	July 2017	The Concessionaire finished construction works in Risaralda and Totuy bridges. During the site visit, it was evidenced an adequate recovery of the surrounding area. See Figure 1	
<p>9 Concrete launcher water treatment – Entrance portal Tesalia Tunnel, UF2 The Concessionaire should intensify the maintenance of the sedimentary pools for the waste water of the concrete launcher at the entrance portal of Tesalia</p>	July 2017	The Concessionaire improved the water treatment of the sedimentary pools. During the site visit, it was evidenced	

Proposed Action (As set in the ESDD)	Proposed Deadline	Current Status (Updated December 2017)	Color code
Tunnel, UF2. During the site visit, it was evidenced that the pools had a lot of sediments, representing a possible risk of pollution		that the pools were clean. There is an employee in charge of the daily maintenance of these pools.	
10 Watercourse protection - sediment barriers, UF5 The Concessionaire needs to improve the sediment barriers in UF5 in K82+355 and K92+700 (La Ley stream)	July 2017	The Concessionaire improved the sediment barriers in K82+355 and K92+700 (La Ley stream)	
11 Road safety campaign – la Libertad community, UF2 The Concessionaire should reinforce the road safety campaigns with <i>la Libertad</i> community	August 2017	The Concessionaire performed road safety campaigns at the school of <i>la Libertada</i> community, and other institutions from the area of influence of the Project.	
12 Road Safety, UF2 At the exit of work fronts there is a crew responsible for cleaning the tires of vehicles and sweeping the road. However, during the rainy season, this measure may be insufficient. Construction of sumps and use of granular material are recommended. This measure should be reinforced in UF2, giving priority to areas near social infrastructure like the school.	July 2017	During the site visit, Arup evidenced an adequate cleaning and sweeping of the road.	
13 Use of portable toilets, UF5 – K92+200 The workfront located in K92+200, UF5, does not have a portable toilet. The Concessionaire manifested that the workers are using a toilet from a neighbouring house. However, Arup has not evidenced a certificate or a permission of the property owner.	July 2017	To date, the Concessionaire has installed a portable toilet in this work front and has reported a total of 107 portable toilets in the Project. Arup reviewed the maintenance certificate of this toilets and did not find any inconsistency or non-compliance.	
14 Risk of fall at Tesalia Tunnel (Entrance portal) The channel to conduct the water from inside the tunnel to the its entrance, is not well signaled and does not have any protection barrier. This could represent a risk of fall for employees and machinery. UF: 2.2 PS4	Immediately	New Action	

Proposed Action (As set in the ESDD)	Proposed Deadline	Current Status (Updated December 2017)	Color code
<p>15 Risk of Fall at Francisco Jaramillo Bridge The protection barrier between the river and the bridge does not comply with safety standards. Employees are working in between construction materials with minimum space to walk. There is an importan risk of fall. UF: 1 PS4</p>	Inmediatly	New Action	
<p>16 Fatal Accident – Struck by lightning The employee Sergio Andrés Jaramillo Giraldo, was victim of a fatal accident. He was struck by lightning while covering a pile of material with a plastic cover. Up to the date of this report, Arup does not have evidence of the actions that have been implemented after the accident. In addition, it has not received the reports from the insurance company and the the amounts to be compensated for: labor, civil, criminal and administrative liability. UF: PS4</p>	Inmediatly	New Action	
<p>17 Industrial water management of Tesalia Tunnel: The Concessionaire has started construction activities in both tunnels and has implemented a permanet primary treatment, which currently is capable to attend the infiltration flow. However, the water conduction from inside the tunnel to the treatment system could be improved. Specifically, in the entrance portal of Tesalia Tunnel, there is a lot of stagnant water (Figure 8). UF2 PS3</p>	Inmediatly	New Action	

7 Photographic Record



Figure 1 Totuy River, recovery of river banks



Figure 2 Overcapacity storage of hazardous materials



Figure 3 Risk of falling at the entrance of Tesalia Tunnel. Lack of signalling and protection barrier.



Figure 4 Exit portal of the *La Tesalia* Tunnel



Figure 5 Community plant nursery



Figure 6 Meeting with ASOCOMPUERTOS



Figure 7 Tesalia Tunnel



Figure 8 Tesalia Tunnel Entrance