

1.1 MONITORING PLAN

Construction period

Environmental item	Item to be monitored	Monitoring site	Frequency	Method	Party in charge
Air quality	H ₂ S - CO ₂	Borinquen Hotel and 4 sites (north, south, east and west) on the well base boundary	During testing period (weeks-one month): every three month (quarterly) and permanent monitoring station	Field measurement	ICE

	Min CO2 (ppm)	Prom CO2 (ppm)	Max CO2 (ppm)	Standard CO2	Min H2S (ppm)	Prom H2S2 (ppm)	Max H2S (ppm)	Standard H2S
▣ CAMPO GEOTERMICO BORINQUEN	102	260	459	5000	0.000	0.000	0.002	0.014
CAÑAS DULCES	227	321	459	5000	0.000	0.000	0.002	0.014
CASA MAQUINAS BORINQUEN	125	244	369	5000	0.000	0.000	0.002	0.014
HOTEL BORINQUEN	102	236	374	5000	0.000	0.000	0.001	0.014
HOTEL BUENA VISTA	112	261	378	5000	0.000	0.000	0.002	0.014
PLB-02	143	243	368	5000	0.000	0.001	0.002	0.014
PLB-03	121	276	381	5000	0.000	0.000	0.001	0.014
PLB-04	133	235	362	5000	0.000	0.000	0.000	0.014
PLB-05	129	248	361	5000	0.000	0.000	0.001	0.014
PLB-09	128	241	381	5000	0.000	0.000	0.001	0.014
POBLADO BUENA VISTA	142	292	372	5000	0.000	0.000	0.001	0.014

Environmental item	Item to be monitored	Monitoring site	Frequency	Method	Party in charge
Noise	Noise level	Borinquen Hotel, one site on the well base boundary (in the hotel direction), and 4 sites (north, south, east and west) in the vicinity of the power plant site.	During testing period (weeks-one month): once/week During power plant construction: monthly (with peak time for each construction job taken into account)	Field measurement	ICE

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	Min Ruido (dB)	Prom Ruido (dB)	Max Ruido (dB)	Standard Ruido
CAMPO GEOTERMICO BORINQUEN	32	40	69	65
CAÑAS DULCES	37	42	53	65
CASA MAQUINAS BORINQUEN	32	37	48	65
HOTEL BORINQUEN	32	36	47	65
HOTEL BUENA VISTA	33	36	42	65
PLB-02	32	37	44	65
PLB-03	39	41	45	65
PLB-04	33	34	39	65
PLB-05	32	40	51	65
PLB-09	40	57	69	65
POBLADO BUENA VISTA	32	35	39	65

Environmental item	Item to be monitored	Monitoring site	Frequency	Method	Party in charge
Water quality	1) pH, Electric conductivity (EC), Chlorides (Cl-)	Upper and lower streams of the Salitral rivers, upper and lower streams within the project area (AP) of the creek running.	1) During testing period: twice/testing period (weeks-one month)	Laboratory analysis of collected samples	ICE and External laboratory to hire by ICE

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Site	pH			Conductivity (µS/cm)			Chlorides (ppm)		
Standard	5-9			N/A			500		
	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
SALITRAL - PUENTE HOTEL	6.50	8.06	7.55	101.90	265.00	178.32	2.49	15.60	7.23
SALITRAL PGB-03	6.04	8.34	7.52	100.30	283.00	169.15	2.91	17.00	6.57
TOMA DE AGUA PGB-01 AGUAS ARRIBA	6.30	8.00	7.37	120.50	387.00	238.44	2.79	18.80	11.40
RIO SALITRAL ABAJO - POZO 4	6.30	8.20	7.56	100.70	323.00	168.48	2.41	19.00	6.40
NACIENTE NARAVIT	5.71	7.83	6.74	150.90	245.40	185.19	2.00	7.80	4.19
NACIENTE DOS QUEBRADAS	5.99	7.72	6.74	97.00	210.90	156.32	2.50	8.00	4.10
QUEBRADA PACAYALES	6.86	7.93	7.47	86.50	258.20	154.26	3.04	11.70	5.43
QUEBRADA GATA	5.36	8.12	7.20	122.50	348.00	210.68	1.31	12.20	5.75
TERMAL LOS PEDERNALES	5.95	7.28	6.63	138.70	181.70	158.67	2.64	4.72	3.16
TOMA AGUA LAS LILAS	5.90	7.01	6.65	141.50	189.00	177.11	3.79	11.50	5.53
Q. GALLINON	6.84	8.48	7.59	158.10	336.00	242.73	4.82	14.10	8.27
R. TIZATE ARRIBA	6.36	8.02	7.59	127.80	345.00	225.69	4.50	15.00	8.80
R. TIZATE ABAJO	7.59	8.27	0.00	127.40	273.00	218.35	5.20	16.10	8.84
PBR11 ARRIBA	5.76	7.81	6.98	74.50	263.00	147.28	1.80	11.30	5.17

<p>Water quality</p>	<p>2) Oils and grease,</p>	<p>Outlet of the settling basin (construction work effluents). Only in the presence of machinery in the project area (AP)</p>	<p>2) Oils and grease, every six months (semester) After 2 years, the continuation of monitoring will be reconsidered based on opinions of professional experts.)</p>	<p>Laboratory analysis of collected samples</p>	<p>ICE and External laboratory to hire by ICE</p>
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Site	Oils and grease (mg/L)	
Standard	50	
	Min	Max
SALITRAL PGB-03	<1	8.00
QUEBRADA GATA	<1	4.00

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Water quality	3) Hexavalent chrome (Cr+6), and Mercury (Hg) and COD	NOT APPLICABLE (NA)	NOT APPLICABLE (NA)	-----	
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Water quality	4) Arsenic (As)	Only in drinking water intakes	every six months (semester) After 2 years, the continuation of monitoring will be reconsidered based on opinions of professional experts.)	Laboratory analysis of collected samples	ICE and External laboratory to hire by ICE
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Site	Arsenic (mg/L)	
Standard	0,01	
	Min	Max
CAMPAMENTO CURUBANDE	<0.001	<0.002

Environmental item	Item to be monitored	Monitoring site	Frequency	Method	Party in charge
Soil	Complete analysis - Cadmium (Cd), Lead (Pb), As, Cr ⁺⁶ , Hg, etc.	Four points in the vicinity of a representative geothermal field	One year before construction starts, and once five years after operation starts	Laboratory analysis of collected samples	ICE
		Four points in the vicinity of the power plant site	One year before construction starts, and once five years after operation starts		
Not applicable for this period. Monitoring in 2020.					

Environmental item	Item to be monitored	Monitoring site	Frequency	Method	Party in charge
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Fauna and flora	Plants and animals (birds, amphibians, reptiles, and mammals)	Area in the vicinity of wells and power plant site, the project site side of the national park, and gallery forest along the Salitral river	Monthly (with rainy and dry seasons, breeding seasons, etc. taken into account)	Visual observation records and photographs	ICE
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Date	Group	Species	Presence	EC	UICN
01/10/2018	Reptiles	<i>Spilotes pullatus</i>	1	S.I, N.C	N.E
02/10/2018	Birds	<i>Amazona albifrons</i>	1	A, II	P.M
02/10/2018	Birds	<i>Calocitta formosa</i>	1	S.I, N.C	P.M
02/10/2018	Birds	<i>Ramphastos sulfuratus</i>	1	A, II	P.M
02/10/2018	Birds	<i>Psarocolius montezuma</i>	1	S.I, N.C	P.M
02/10/2018	Birds	<i>Microcerculus philomela</i>	1	S.I, N.C	P.M
02/10/2018	Birds	<i>Chiroxiphia linearis</i>	1	S.I, N.C	P.M
02/10/2018	Birds	<i>Turdus assimilis</i>	1	S.I, N.C	P.M
02/10/2018	Birds	<i>Attila spadiceus</i>	1	S.I, N.C	P.M
02/10/2018	Amphibians	<i>Incilius melanochlorus</i>	1	A, N.C	P.M
02/10/2018	Birds	<i>Chiroxiphia linearis</i>	1	S.I, N.C	P.M
02/10/2018	Birds	<i>Tinamus major</i>	1	A, N.C	C.A
02/10/2018	Mammals	<i>Ateles geoffroyi</i>	1	P.E, I	P

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	02/10/2018	Birds	<i>Amazona albifrons</i>	1	A, II	P.M
	07/10/2018	Birds	<i>Brotogeris jugularis</i>	1	A, II	P.M
	07/10/2018	Birds	<i>Eumomota superciliosa</i>	1	S.I, N.C	P.M
	07/10/2018	Reptiles	<i>Holcosus undulatus</i>	1	S.I, N.C	P.M
	07/10/2018	Birds	<i>Cardellina canadensis</i>	1	S.I, N.C	P.M
	07/10/2018	Birds	<i>Polioptila albiloris</i>	1	S.I, N.C	P.M
	07/10/2018	Birds	<i>Myiarchus crinitus</i>	1	S.I, N.C	P.M
	07/10/2018	Birds	<i>Calocitta formosa</i>	1	S.I, N.C	P.M
	07/10/2018	Birds	<i>Thryophilus pleurostictus</i>	1	S.I, N.C	P.M
	07/10/2018	Birds	<i>Chiroxiphia linearis</i>	1	S.I, N.C	P.M
	07/10/2018	Birds	<i>Crotophaga sulcirostris</i>	1	S.I, N.C	P.M
	07/10/2018	Birds	<i>Basileuterus rufifrons</i>	1	S.I, N.C	P.M
	07/10/2018	Birds	<i>Piaya cayana</i>	1	S.I, N.C	P.M
	07/10/2018	Birds	<i>Polioptila albiloris</i>	1	S.I, N.C	P.M

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	07/10/2018	Reptiles	<i>Holcosus undulatus</i>	1	S.I, N.C	P.M
	07/10/2018	Birds	<i>Thryophilus pleurostictus</i>	1	S.I, N.C	P.M
	07/10/2018	Reptiles	<i>Ctenosaura similis</i>	1	S.I, N.C	P.M
	07/10/2018	Reptiles	<i>Holcosus undulatus</i>	1	S.I, N.C	P.M
	07/10/2018	Birds	<i>Nyctidromus albicollis</i>	1	S.I, N.C	P.M
	07/10/2018	Birds	<i>Piaya cayana</i>	1	S.I, N.C	P.M
	07/10/2018	Birds	<i>Momotus coeruliceps</i>	1	S.I, N.C	P.M
	09/10/2018	Birds	<i>Thryophilus pleurostictus</i>	1	S.I, N.C	P.M
	09/10/2018	Birds	<i>Calocitta formosa</i>	1	S.I, N.C	P.M
	09/10/2018	Mammals	<i>Odocoileus virginianus</i>	1	S.I, N.C	P.M
	09/10/2018	Birds	<i>Vireo philadelphicus</i>	1	S.I, N.C	P.M
	09/10/2018	Birds	<i>Basileuterus rufifrons</i>	1	S.I, N.C	P.M
	09/10/2018	Birds	<i>Brotogeris jugularis</i>	1	A, II	P.M
	09/10/2018	Birds	<i>Dendrocicla homochroa</i>	1	S.I, N.C	P.M

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	09/10/2018	Reptiles	<i>Holcosus undulatus</i>	1	S.I, N.C	P.M
	09/10/2018	Birds	<i>Piaya cayana</i>	1	S.I, N.C	P.M
	09/10/2018	Reptiles	<i>Holcosus undulatus</i>	1	S.I, N.C	P.M
	18/10/2018	Birds	<i>Geothlypis poliocephala</i>	1	S.I, N.C	P.M
	18/10/2018	Birds	<i>Eupsittula canicularis</i>	1	A, II	P.M
	18/10/2018	Birds	<i>Rupornis magnirostris</i>	1	A, II	P.M
	18/10/2018	Birds	<i>Chiroxiphia linearis</i>	1	S.I, N.C	P.M
	18/10/2018	Reptiles	<i>Sceloporus variabilis</i>	1	S.I, N.C	P.M
	18/10/2018	Birds	<i>Calocitta formosa</i>	1	S.I, N.C	P.M
	18/10/2018	Birds	<i>Psarocolius montezuma</i>	1	S.I, N.C	P.M
	18/10/2018	Birds	<i>Piaya cayana</i>	1	S.I, N.C	P.M
	18/10/2018	Birds	<i>Ramphastos sulfuratus</i>	1	A, II	P.M
	18/10/2018	Birds	<i>Amazilia saucerrottei</i>	1	A, II	P.M
	18/10/2018	Birds	<i>Morococcyx erythropygus</i>	1	S.I, N.C	P.M

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18/10/2018	Mammals	<i>Galictis vittata</i>	1	S.I, III	P.M
19/10/2018	Mammals	<i>Artibeus jamaicensis</i>	1	A, N.C	P.M
19/10/2018	Mammals	<i>Carollia perspicillata</i>	1	S.I, N.C	P.M
19/10/2018	Mammals	<i>Platyrrhinus helleri</i>	1	S.I, N.C	P.M
19/10/2018	Mammals	<i>Artibeus lituratus</i>	1	S.I, N.C	P.M
20/10/2018	Amphibians	<i>Lithobates warszewitschii</i>	1	S.I, N.C	P.M
20/10/2018	Mammals	<i>Marmosa mexicana</i>	1	S.I, N.C	P.M
24/10/2018	Birds	<i>Calocitta formosa</i>	1	S.I, N.C	P.M
24/10/2018	Mammals	<i>Sciurus variegatoides</i>	1	S.I, N.C	P.M
24/10/2018	Reptiles	<i>Ctenosaura similis</i>	1	S.I, N.C	P.M
24/10/2018	Birds	<i>Piaya cayana</i>	1	S.I, N.C	P.M
24/10/2018	Birds	<i>Basileuterus rufifrons</i>	1	S.I, N.C	P.M
24/10/2018	Birds	<i>Vireo philadelphicus</i>	1	S.I, N.C	P.M
24/10/2018	Birds	<i>Amazilia rutila</i>	1	A, II	P.M

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24/10/2018	Amphibians	<i>Incilius coccifer</i>	1	S.I, N.C	P.M
24/10/2018	Birds	<i>Basileuterus rufifrons</i>	1	S.I, N.C	P.M
24/10/2018	Mammals	<i>Alouatta palliata</i>	1	P.E, I	P.M
24/10/2018	Birds	<i>Brotogeris jugularis</i>	1	A, II	P.M
24/10/2018	Birds	<i>Basileuterus rufifrons</i>	1	S.I, N.C	P.M
24/10/2018	Birds	<i>Basileuterus rufifrons</i>	1	S.I, N.C	P.M
24/10/2018	Birds	<i>Attila spadiceus</i>	1	S.I, N.C	P.M
30/10/2018	Birds	<i>Henicorhina leucosticta</i>	1	S.I, N.C	P.M
30/10/2018	Birds	<i>Microcerculus philomela</i>	1	S.I, N.C	P.M
30/10/2018	Mammals	<i>Tapirus bairdii</i>	1	P.E, I	P
30/10/2018	Mammals	<i>Odocoileus virginianus</i>	1	S.I, N.C	P.M
30/10/2018	Birds	<i>Basileuterus rufifrons</i>	1	S.I, N.C	P.M
30/10/2018	Birds	<i>Ramphastos ambiguus</i>	1	S.I, N.C	C.A
30/10/2018	Birds	<i>Chiroxiphia linearis</i>	1	S.I, N.C	P.M

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	30/10/2018	Birds	<i>Ramphastos sulfuratus</i>	1	A, II	P.M
	30/10/2018	Birds	<i>Hylophylax naevioides</i>	1	S.I, N.C	P.M
	30/10/2018	Birds	<i>Myrmeciza exsul</i>	1	S.I, N.C	P.M
	30/10/2018	Birds	<i>Myiarchus tuberculifer</i>	1	S.I, N.C	P.M
	30/10/2018	Birds	<i>Henicorhina leucosticta</i>	1	S.I, N.C	P.M
	30/10/2018	Mammals	<i>Sphiggurus mexicanus</i>	1	S.I, III	P.M
	30/10/2018	Reptiles	<i>Holcosus undulatus</i>	1	S.I, N.C	P.M
	02/11/2018	Birds	<i>Setophaga petechia</i>	1	S.I, N.C	P.M
	02/11/2018	Birds	<i>Peucaea ruficauda</i>	1	S.I, N.C	P.M
	02/11/2018	Mammals	<i>Tapirus bairdii</i>	1	P.E, I	P
	02/11/2018	Birds	<i>Ramphastos sulfuratus</i>	1	A, II	P.M
	02/11/2018	Birds	<i>Chiroxiphia linearis</i>	1	S.I, N.C	P.M
	02/11/2018	Birds	<i>Piaya cayana</i>	1	S.I, N.C	P.M
	02/11/2018	Birds	<i>Basileuterus rufifrons</i>	1	S.I, N.C	P.M

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	02/11/2018	Birds	<i>Penelope purpurascens</i>	1	A, III	P.M
	02/11/2018	Birds	<i>Rupornis magnirostris</i>	1	A, II	P.M
	02/11/2018	Birds	<i>Momotus coeruliceps</i>	1	S.I, N.C	P.M
	02/11/2018	Birds	<i>Vireo philadelphicus</i>	1	S.I, N.C	P.M
	02/11/2018	Birds	<i>Brotogeris jugularis</i>	1	A, II	P.M
	02/11/2018	Birds	<i>Myiarchus crinitus</i>	1	S.I, N.C	P.M
	02/11/2018	Birds	<i>Setophaga petechia</i>	1	S.I, N.C	P.M
	02/11/2018	Birds	<i>Thryophilus pleurostictus</i>	1	S.I, N.C	P.M
	02/11/2018	Mammals	<i>Nasua narica</i>	1	S.I, III	P.M
	02/11/2018	Birds	<i>Piaya cayana</i>	1	S.I, N.C	P.M
	02/11/2018	Birds	<i>Eucometis penicillata</i>	1	S.I, N.C	P.M
	02/11/2018	Birds	<i>Dendrocincla homochroa</i>	1	S.I, N.C	P.M
	02/11/2018	Birds	<i>Amazona albifrons</i>	1	A, II	P.M
	02/11/2018	Birds	<i>Amazona albifrons</i>	1	A, II	P.M

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	02/11/2018	Birds	<i>Calocitta formosa</i>	1	S.I, N.C	P.M
	02/11/2018	Birds	<i>Amazona albifrons</i>	1	A, II	P.M
	03/11/2018	Birds	<i>Ciccaba virgata</i>	1	A, II	P.M
	03/11/2018	Mammals	<i>Nasua narica</i>	1	S.I, III	P.M
	03/11/2018	Mammals	<i>Sylvilagus floridanus</i>	1	S.I, N.C	P.M
	03/11/2018	Birds	<i>Calocitta formosa</i>	1	S.I, N.C	P.M
	03/11/2018	Reptiles	<i>Crotalus simus</i>	1	S.I, III	P.M
	04/11/2018	Birds	<i>Leptotila verreauxi</i>	1	S.I, N.C	P.M
	04/11/2018	Birds	<i>Chlorostilbon canivetii</i>	1	A, II	P.M
	04/11/2018	Birds	<i>Cantorchilus modestus</i>	1	S.I, N.C	P.M
	04/11/2018	Birds	<i>Rupornis magnirostris</i>	1	A, II	P.M
	04/11/2018	Birds	<i>Basileuterus rufifrons</i>	1	S.I, N.C	P.M
	04/11/2018	Birds	<i>Thryophilus rufalbus</i>	1	S.I, N.C	P.M
	04/11/2018	Birds	<i>Morococcyx erythropygus</i>	1	S.I, N.C	P.M

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	04/11/2018	Birds	<i>Setophaga petechia</i>	1	S.I, N.C	P.M
	04/11/2018	Mammals	<i>Pecari tajacu</i>	1	A, II	P.M
	04/11/2018	Birds	<i>Chiroxiphia linearis</i>	1	S.I, N.C	P.M
	04/11/2018	Birds	<i>Herpetotheres cachinnans</i>	1	A, II	P.M
	04/11/2018	Mammals	<i>Cebus capucinus</i>	1	A, II	P.M
	04/11/2018	Birds	<i>Eupherusa nigriventris</i>	1	S.I, N.C	P.M
	04/11/2018	Birds	<i>Vireo flavifrons</i>	1	S.I, N.C	P.M
	04/11/2018	Birds	<i>Piaya cayana</i>	1	S.I, N.C	P.M
	04/11/2018	Reptiles	<i>Anolis cupreus</i>	1	S.I, N.C	N.E
	04/11/2018	Birds	<i>Piaya cayana</i>	1	S.I, N.C	P.M
	04/11/2018	Mammals	<i>Cebus capucinus</i>	1	A, II	P.M
	04/11/2018	Birds	<i>Chiroxiphia linearis</i>	1	S.I, N.C	P.M
	04/11/2018	Birds	<i>Thryophilus rufalbus</i>	1	S.I, N.C	P.M
	04/11/2018	Birds	<i>Calocitta formosa</i>	1	S.I, N.C	P.M

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	04/11/2018	Amphibians	<i>Craugastor fitzingeri</i>	1	S.I, N.C	P.M
	04/11/2018	Birds	<i>Ramphastos sulfuratus</i>	1	A, II	P.M
	04/11/2018	Birds	<i>Momotus coeruliceps</i>	1	S.I, N.C	P.M
	04/11/2018	Birds	<i>Momotus coeruliceps</i>	1	S.I, N.C	P.M
	04/11/2018	Birds	<i>Euphonia hirundinacea</i>	1	S.I, N.C	P.M
	04/11/2018	Birds	<i>Psilorhinus morio</i>	1	S.I, N.C	P.M
	04/11/2018	Reptiles	<i>Mastigodryas melanolomus</i>	1	S.I, N.C	P.M
	04/11/2018	Mammals	<i>Alouatta palliata</i>	1	P.E, I	P.M
	06/11/2018	Birds	<i>Streptoprocne zonalis</i>	1	S.I, N.C	P.M
	06/11/2018	Birds	<i>Brotogeris jugularis</i>	1	A, II	P.M
	06/11/2018	Birds	<i>Cathartes aura</i>	1	S.I, N.C	P.M
	06/11/2018	Birds	<i>Ramphastos sulfuratus</i>	1	A, II	P.M
	06/11/2018	Mammals	<i>Sciurus variegatoides</i>	1	S.I, N.C	P.M
	06/11/2018	Birds	<i>Chiroxiphia linearis</i>	1	S.I, N.C	P.M

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	06/11/2018	Birds	<i>Mniotilta varia</i>	1	S.I, N.C	P.M
	06/11/2018	Birds	<i>Hylophilus decurtatus</i>	1	S.I, N.C	P.M
	06/11/2018	Birds	<i>Myiarchus tuberculifer</i>	1	S.I, N.C	P.M
	06/11/2018	Birds	<i>Henicorhina leucosticta</i>	1	S.I, N.C	P.M
	06/11/2018	Birds	<i>Crypturellus boucardi</i>	1	A, N.C	P.M
	06/11/2018	Mammals	<i>Tapirus bairdii</i>	1	P.E, I	P
	06/11/2018	Birds	<i>Tityra semifasciata</i>	1	S.I, N.C	P.M
	06/11/2018	Mammals	<i>Nasua narica</i>	1	S.I, III	P.M
	06/11/2018	Amphibians	<i>Craugastor mimus</i>	1	A, N.C	P.M
	06/11/2018	Mammals	<i>Ateles geoffroyi</i>	1	P.E, I	P
	06/11/2018	Birds	<i>Elaenia frantzii</i>	1	S.I, N.C	P.M
	14/11/2018	Birds	<i>Melanerpes hoffmannii</i>	1	S.I, N.C	P.M
	14/11/2018	Birds	<i>Megarynchus pitangua</i>	1	S.I, N.C	P.M
	14/11/2018	Birds	<i>Euphonia hirundinacea</i>	1	S.I, N.C	P.M

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14/11/2018	Birds	<i>Trogon melanocephalus</i>	1	S.I, N.C	P.M
14/11/2018	Birds	<i>Campylorhynchus rufinucha</i>	1	S.I, N.C	P.M
14/11/2018	Birds	<i>Euphonia hirundinacea</i>	1	S.I, N.C	P.M
14/11/2018	Birds	<i>Cantorchilus modestus</i>	1	S.I, N.C	P.M
14/11/2018	Birds	<i>Melanerpes hoffmannii</i>	1	S.I, N.C	P.M
14/11/2018	Birds	<i>Basileuterus rufifrons</i>	1	S.I, N.C	P.M
14/11/2018	Amphibians	<i>Lithobates warszewitschii</i>	1	S.I, N.C	P.M
14/11/2018	Birds	<i>Calocitta formosa</i>	1	S.I, N.C	P.M
14/11/2018	Birds	<i>Basileuterus rufifrons</i>	1	S.I, N.C	P.M
14/11/2018	Birds	<i>Basileuterus rufifrons</i>	1	S.I, N.C	P.M
14/11/2018	Birds	<i>Eupsittula canicularis</i>	1	A, II	P.M
14/11/2018	Birds	<i>Cantorchilus modestus</i>	1	S.I, N.C	P.M
14/11/2018	Amphibians	<i>Lithobates taylori</i>	1	S.I, N.C	P.M
14/11/2018	Birds	<i>Basileuterus rufifrons</i>	1	S.I, N.C	P.M

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	14/11/2018	Mammals	<i>Cebus capucinus</i>	1	A, II	P.M
	15/11/2018	Mammals	<i>Carollia sowelli</i>	1	S.I, N.C	P.M
	15/11/2018	Mammals	<i>Carollia castanea</i>	1	S.I, N.C	P.M
	15/11/2018	Mammals	<i>Carollia perspicillata</i>	1	S.I, N.C	P.M
	15/11/2018	Mammals	<i>Artibeus lituratus</i>	1	S.I, N.C	P.M
	16/11/2018	Birds	<i>Hylophilus decurtatus</i>	1	S.I, N.C	P.M
	16/11/2018	Birds	<i>Basileuterus rufifrons</i>	1	S.I, N.C	P.M
	16/11/2018	Mammals	<i>Tapirus bairdii</i>	1	P.E, I	P
	16/11/2018	Birds	<i>Ramphastos sulfuratus</i>	1	A, II	P.M
	16/11/2018	Birds	<i>Crax rubra</i>	1	A, III	VU
	16/11/2018	Mammals	<i>Alouatta palliata</i>	1	P.E, I	P.M
	16/11/2018	Mammals	<i>Dasyprocta punctata</i>	1	S.I, III	P.M
	16/11/2018	Birds	<i>Microcerculus philomela</i>	1	S.I, N.C	P.M
	16/11/2018	Birds	<i>Henicorhina leucosticta</i>	1	S.I, N.C	P.M

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	16/11/2018	Birds	<i>Mionectes oleagineus</i>	1	S.I, N.C	P.M
	16/11/2018	Birds	<i>Campylopterus hemileucurus</i>	1	S.I, II	P.M
	16/11/2018	Birds	<i>Trogon collaris</i>	1	A, N.C	P.M
	16/11/2018	Birds	<i>Microcerculus philomela</i>	1	S.I, N.C	P.M
	16/11/2018	Birds	<i>Penelope purpurascens</i>	1	A, III	P.M
	16/11/2018	Mammals	<i>Sciurus deppei</i>	1	A, III	P.M
	17/11/2018	Mammals	<i>Didelphis marsupialis</i>	1	S.I, N.C	P.M
	17/11/2018	Birds	<i>Ciccaba virgata</i>	1	A, II	P.M
	17/11/2018	Reptiles	<i>Bothriechis lateralis</i>	1	S.I, N.C	P.M
	22/11/2018	Birds	<i>Phaeochroa cuvierii</i>	1	A, II	P.M
	27/11/2018	Birds	<i>Calocitta formosa</i>	1	S.I, N.C	P.M
	27/11/2018	Birds	<i>Amazilia rutila</i>	1	A, II	P.M
	27/11/2018	Birds	<i>Setophaga petechia</i>	1	S.I, N.C	P.M
	27/11/2018	Reptiles	<i>Holcosus quadrilineatus</i>	1	S.I, N.C	P.M

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	27/11/2018	Birds	<i>Thryophilus pleurostictus</i>	1	S.I, N.C	P.M
	27/11/2018	Reptiles	<i>Holcosus quadrilineatus</i>	1	S.I, N.C	P.M
	27/11/2018	Birds	<i>Crotophaga sulcirostris</i>	1	S.I, N.C	P.M
	27/11/2018	Birds	<i>Pitangus sulphuratus</i>	1	S.I, N.C	P.M
	27/11/2018	Birds	<i>Brotogeris jugularis</i>	1	A, II	P.M
	27/11/2018	Birds	<i>Piaya cayana</i>	1	S.I, N.C	P.M
	27/11/2018	Birds	<i>Myiarchus nuttingi</i>	1	S.I, N.C	P.M
	27/11/2018	Birds	<i>Chiroxiphia linearis</i>	1	S.I, N.C	P.M
	27/11/2018	Mammals	<i>Artibeus lituratus</i>	1	S.I, N.C	P.M
	27/11/2018	Birds	<i>Icterus galbula</i>	1	S.I, N.C	P.M
	27/11/2018	Birds	<i>Thryophilus pleurostictus</i>	1	S.I, N.C	P.M
	27/11/2018	Amphibians	<i>Rhinella horribilis</i>	1	S.I, N.C	P.M
	27/11/2018	Birds	<i>Euphonia hirundinacea</i>	1	S.I, N.C	P.M
	27/11/2018	Birds	<i>Streptoprocne zonalis</i>	1	S.I, N.C	P.M

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	27/11/2018	Reptiles	<i>Mabuya unimarginata</i>	1	S.I, N.C	P.M
	27/11/2018	Reptiles	<i>Holcosus quadrilineatus</i>	1	S.I, N.C	P.M
	27/11/2018	Reptiles	<i>Holcosus undulatus</i>	1	S.I, N.C	P.M
	27/11/2018	Birds	<i>Thryophilus pleurostictus</i>	1	S.I, N.C	P.M
	27/11/2018	Mammals	<i>Sciurus variegatoides</i>	1	S.I, N.C	P.M
	27/11/2018	Birds	<i>Myiozetetes similis</i>	1	S.I, N.C	P.M
	27/11/2018	Birds	<i>Brotogeris jugularis</i>	1	A, II	P.M
	27/11/2018	Birds	<i>Calocitta formosa</i>	1	S.I, N.C	P.M
	27/11/2018	Birds	<i>Chiroxiphia linearis</i>	1	S.I, N.C	P.M
	27/11/2018	Birds	<i>Momotus coeruliceps</i>	1	S.I, N.C	P.M
	27/11/2018	Birds	<i>Leptotila verreauxi</i>	1	S.I, N.C	P.M
	27/11/2018	Reptiles	<i>Holcosus quadrilineatus</i>	1	S.I, N.C	P.M
	27/11/2018	Birds	<i>Trogon elegans</i>	1	S.I, N.C	P.M
	28/11/2018	Birds	<i>Cantorchilus modestus</i>	1	S.I, N.C	P.M

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28/11/2018	Birds	<i>Chiroxiphia linearis</i>	1	S.I, N.C	P.M
28/11/2018	Birds	<i>Amazona albifrons</i>	1	A, II	P.M
28/11/2018	Birds	<i>Rupornis magnirostris</i>	1	A, II	P.M
28/11/2018	Birds	<i>Basileuterus rufifrons</i>	1	S.I, N.C	P.M
28/11/2018	Birds	<i>Cantorchilus modestus</i>	1	S.I, N.C	P.M
28/11/2018	Birds	<i>Psilorhinus morio</i>	1	S.I, N.C	P.M
28/11/2018	Birds	<i>Morococcyx erythropygus</i>	1	S.I, N.C	P.M
28/11/2018	Birds	<i>Trogon melanocephalus</i>	1	S.I, N.C	P.M
28/11/2018	Birds	<i>Actitis macularius</i>	1	S.I, N.C	P.M
28/11/2018	Birds	<i>Geothlypis poliocephala</i>	1	S.I, N.C	P.M
28/11/2018	Birds	<i>Cathartes aura</i>	1	S.I, N.C	P.M
28/11/2018	Birds	<i>Tityra semifasciata</i>	1	S.I, N.C	P.M
28/11/2018	Birds	<i>Archilochus colubris</i>	1	A, II	P.M
28/11/2018	Birds	<i>Cantorchilus modestus</i>	1	S.I, N.C	P.M

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28/11/2018	Birds	<i>Euphonia hirundinacea</i>	1	S.I, N.C	P.M
28/11/2018	Birds	<i>Icterus galbula</i>	1	S.I, N.C	P.M
28/11/2018	Birds	<i>Myiodynastes luteiventris</i>	1	S.I, N.C	P.M
28/11/2018	Birds	<i>Columbina inca</i>	1	S.I, N.C	P.M
28/11/2018	Birds	<i>Myiarchus crinitus</i>	1	S.I, N.C	P.M
28/11/2018	Birds	<i>Setophaga petechia</i>	1	S.I, N.C	P.M
28/11/2018	Birds	<i>Cantorchilus modestus</i>	1	S.I, N.C	P.M

CATEGORIES OF CONSERVATION ACCORDING TO IUCN

- Extinct (EX) • Extinct in the wild (E.E.S) • Critically endangered (P.C) • Endangered (P) Endangered
- Vulnerable (VU) • Near Threatened (C.A) Near Threatened • Least Concern (P.M) Least Concern • Insufficient data (D.I) Data Deficient • Not evaluated (N.E)

CATEGORIES OF CONSERVATION ACCORDING TO CITES

- Danger of Extinction (I) • Threatened (II) • Protected (III) • No CITES (N.C)
- A: species with reduced or threatened populations and those included in Appendix II of CITES (art 26)

CONSERVATION CATEGORIES ACCORDING TO THE WILDLIFE LAW COSTA RICA

- P.E: species in danger of extinction (art 29)
- S.I: no information

Environmental item	Item to be monitored	Monitoring site	Frequency	Method	Party in charge
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Attachment 2

Waste*	Generated amount	Power plant construction site	Monthly	Total of generated amount (weight or volume)	Construction contractor
Not applicable for this period. In 2021 starts the construction of plant.					

*Appropriate waste management including disposal of sludge will be implemented in accordance with Law for the Integrated Management of Residues (Law 8839), and in reference to Resolution No. 1948-2008-SETENA17 (page26).