

Expediente de evaluación: 008-2022-DEAM-EAS				CÓDIGO DE ACCIÓN: 0005-10-2022-417							
LOCALIDAD: Parcoy / Pataz / La Libertad											
PUNTO DE MUESTREO:		M-1		FECHA:		19/10/2022	HORA:	17:35			
UBICACIÓN:											
Río Llacuabamba, aguas arriba antes de las operaciones de CMHSA y aguas abajo de las operaciones de MARSAS.											
COORDENADAS UTM WGS 84		pH (unid. de pH)	C.E. (µS/cm)	O.D. (mg/L)	T (°C)	Prof. (m)	Caudal (m3/s)	ORP (mV)	Turbidez (NTU)		
Zona: 18M		8.24	194.3	7.53	12.4	---	1.804	---	---		
Este (m): 227715											
Norte (m): 9111655											
Altitud (m s. n. m.): 2996											
Precisión (± m): 5		Matriz de agua		Estado del tiempo		Datos para determinar caudal					
		Agua superficial	X	Nublado	Largo (m)	Ancho (m)	Altura (m)	Volumen (L)	Tiempo (s)	V (m/s)	
		Agua subterránea		Soleado	X						
OBSERVACIONES		Agua residual		Lluvia	---	2.0	0.5	---	---	0.3	
Presencia de actividades mineras aparentemente informales en el cauce del río Parcoy y en zonas adyacentes		Agua salina		Nieve	---	2.0	1.0	---	---	0.5	
		Otros		Otros	---	1.8	0.7	---	---	0.4	
											-

											-

											-

											-

AGUA SUBTERRANEA											
Tipo (Piezómetro, pozo o manantial)					---		Nivel de agua (m)		---		
Profundidad del piezómetro (m)					---		Nivel piezométrico (m)		---		
Diámetro (pulg)					---		Stick up (m)		---		
Otros					---		---		---		
PUNTO DE MUESTREO:		M-12A-2		FECHA:		21/10/2022	HORA:	16:40			
UBICACIÓN:											
Río Parcoy, aguas abajo de la descarga de agua de mina del Túnel Horizonte, M-12 (P-1)											
COORDENADAS UTM WGS 84		pH (unid. de pH)	C.E. (µS/cm)	O.D. (mg/L)	T (°C)	Prof. (m)	Caudal (m3/s)	ORP (mV)	Turbidez (NTU)		
Zona: 18M		8.48	326	7.38	17.9	---	8.652	---	---		
Este (m): 226259											
Norte (m): 9114421											
Altitud (m s. n. m.): 2641											
Precisión (± m): 5		Matriz de agua		Estado del tiempo		Datos para determinar caudal					
		Agua superficial	X	Nublado	Largo (m)	Ancho (m)	Altura (m)	Volumen (L)	Tiempo (s)	V (m/s)	
		Agua subterránea		Soleado	X						
OBSERVACIONES		Agua residual		Lluvia	---	5.0	0.5	---	---	0.6	
.....		Agua salina		Nieve	---	5.0	1.2	---	---	0.8	
		Otros		Otros	---	4.2	0.8	---	---	0.7	
											-

											-

											-

											-

AGUA SUBTERRANEA											
Tipo (Piezómetro, pozo o manantial)					---		Nivel de agua (m)		---		
Profundidad del piezómetro (m)					---		Nivel piezométrico (m)		---		
Diámetro (pulg)					---		Stick up (m)		---		
Otros					---		---		---		
Líder del equipo:		Wilmer Ugarte Lopez			FECHA:		23/10/2022				
Responsable de la toma de muestra:		Wilmer Ugarte Lopez			FECHA:		23/10/2022				

Expediente de evaluación: 008-2022-DEAM-EAS				CÓDIGO DE ACCIÓN: 0005-10-2022-417							
LOCALIDAD: Parcoy / Pataz / La Libertad											
PUNTO DE MUESTREO:		M-7B-1		FECHA:		22/10/2022	HORA:		16:00		
UBICACIÓN:											
Río Parcoy, aguas arriba de la descarga de agua de mina del Túnel Balcón (M-7)											
COORDENADAS UTM WGS 84		pH (unid. de pH)	C.E. (µS/cm)	O.D. (mg/L)	T (°C)	Prof. (m)	Caudal (m3/s)	ORP (mV)	Turbidez (NTU)		
Zona: 18M		8.35	400	6..80	21.3	---	9.435	---	---		
Este (m): 225955											
Norte (m): 9115505											
Altitud (m s. n. m.): 2480											
Precisión (± m): 5		Matriz de agua		Estado del tiempo		Datos para determinar caudal					
		Agua superficial	X	Nublado		Largo (m)	Ancho (m)	Altura (m)	Volumen (L)	Tiempo (s)	V (m/s)
		Agua subterránea		Soleado	X	---	5.0	0.4	---	---	0.7
OBSERVACIONES		Agua residual		Lluvia		---	5.0	1.3	---	---	0.8
		Agua salina		Nieve		---	4.5	0.9	---	---	0.7
		Otros		Otros		-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----			

Expediente de evaluación: 008-2022-DEAM-EAS				CÓDIGO DE ACCIÓN: 0005-10-2022-417							
LOCALIDAD: Parcoy / Pataz / La Libertad											
PUNTO DE MUESTREO:		A-6		FECHA:		22/10/2022		HORA:		14:00	
UBICACIÓN:											
Quebrada Culebrillas, antes de la desembocadura al río Parcoy y aguas abajo de las actividades provenientes de la U.E.A. Culebrillas.											
COORDENADAS UTM WGS 84		pH (unid. de pH)	C.E. (µS/cm)	O.D. (mg/L)	T (°C)	Prof. (m)	Caudal (m3/s)	ORP (mV)	Turbidez (NTU)		
Zona: 18M		8.26	281	7.02	18.7	---	1.465	---	---		
Este (m): 224868											
Norte (m): 9117596											
Altitud (m s. n. m.): 2362											
Precisión (± m): 5		Matriz de agua		Estado del tiempo		Datos para determinar caudal					
		Agua superficial	X	Nublado	X	Largo (m)	Ancho (m)	Altura (m)	Volumen (L)	Tiempo (s)	V (m/s)
		Agua subterránea		Soleado		---	2.0	0.4	---	---	0.4
OBSERVACIONES		Agua residual		Lluvia	---	2.0	0.6	---	---	0.6	
		Agua salina		Nieve	---	1.7	0.5	---	---	0.5	
		Otros		Otros	-----	-----	-----	-----	-----	-	
					---	---	---	---	---	---	
					-----	-----	-----	-----	-----	-	
					---	---	---	---	---	---	
					-----	-----	-----	-----	-----	-	
					---	---	---	---	---	---	
					-----	-----	-----	-----	-----	-	
AGUA SUBTERRANEA											
Tipo (Piezómetro, pozo o manantial)						---		Nivel de agua (m)		---	
Profundidad del piezómetro (m)						---		Nivel piezométrico (m)		---	
Diámetro (pulg)						---		Stick up (m)		---	
Otros						---					
PUNTO DE MUESTREO:		M-10A-1		FECHA:		22/10/2022		HORA:		11:05	
UBICACIÓN:											
Río Parcoy, aguas arriba de la descarga del efluente proveniente de la planta de degradación "Chilcapampa" (M-10).											
COORDENADAS UTM WGS 84		pH (unid. de pH)	C.E. (µS/cm)	O.D. (mg/L)	T (°C)	Prof. (m)	Caudal (m3/s)	ORP (mV)	Turbidez (NTU)		
Zona: 18M		8.40	470	7.12	19.5	---	10.996	---	---		
Este (m): 224179											
Norte (m): 9118398											
Altitud (m s. n. m.): 2265											
Precisión (± m): 5		Matriz de agua		Estado del tiempo		Datos para determinar caudal					
		Agua superficial	X	Nublado	X	Largo (m)	Ancho (m)	Altura (m)	Volumen (L)	Tiempo (s)	V (m/s)
		Agua subterránea		Soleado		---	5.0	0.6	---	---	0.7
OBSERVACIONES		Agua residual		Lluvia	---	5.0	1.3	---	---	0.8	
		Agua salina		Nieve	---	4.2	1.1	---	---	0.8	
		Otros		Otros	-----	-----	-----	-----	-----	-	
					---	---	---	---	---	---	
					-----	-----	-----	-----	-----	-	
					---	---	---	---	---	---	
					-----	-----	-----	-----	-----	-	
AGUA SUBTERRANEA											
Tipo (Piezómetro, pozo o manantial)						---		Nivel de agua (m)		---	
Profundidad del piezómetro (m)						---		Nivel piezométrico (m)		---	
Diámetro (pulg)						---		Stick up (m)		---	
Otros						---					
Líder del equipo:		Wilmer Ugarte Lopez			FECHA:		23/10/2022				
Responsable de la toma de muestra:		Wilmer Ugarte Lopez			FECHA:		23/10/2022				

Expediente de evaluación: 008-2022-DEAM-EAS				CÓDIGO DE ACCIÓN: 0005-10-2022-417							
LOCALIDAD: Parcoy / Pataz / La Libertad											
PUNTO DE MUESTREO:		M-10A-2		FECHA:		22/10/2022		HORA:		12:10	
UBICACIÓN:											
Río Parcoy, aguas debajo de la descarga del efluente proveniente de la planta de degradación "Chilcapampa" (M-10).											
COORDENADAS UTM WGS 84		pH (unid. de pH)	C.E. (µS/cm)	O.D. (mg/L)	T (°C)	Prof. (m)	Caudal (m3/s)	ORP (mV)	Turbidez (NTU)		
Zona: 18M		8.63	512	7.21	19.2	---	11.612	---	---		
Este (m): 224101											
Norte (m): 9118537											
Altitud (m s. n. m.): 2241											
Precisión (± m): 5		Matriz de agua		Estado del tiempo		Datos para determinar caudal					
		Agua superficial	X	Nublado	X	Largo (m)	Ancho (m)	Altura (m)	Volumen (L)	Tiempo (s)	V (m/s)
		Agua subterránea		Soleado		---	5.0	0.6	---	---	---
OBSERVACIONES		Agua residual		Lluvia		---	5.0	1.3	---	---	0.8
		Agua salina		Nieve		---	4.9	1.1	---	---	0.8
		Otros		Otros		-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
AGUA SUBTERRANEA											
Tipo (Piezómetro, pozo o manantial)						---	Nivel de agua (m)		---		
Profundidad del piezómetro (m)						---	Nivel piezométrico (m)		---		
Diámetro (pulg)						---	Stick up (m)		---		
Otros						---					
PUNTO DE MUESTREO:		M-9A-3		FECHA:		20/10/2022		HORA:		9:05	
UBICACIÓN:											
Río Parcoy, aguas abajo del Túnel de derivación Canalhuayco – Alparmarca y aguas arriba de la desembocadura de la quebrada Alparmarca.											
COORDENADAS UTM WGS 84		pH (unid. de pH)	C.E. (µS/cm)	O.D. (mg/L)	T (°C)	Prof. (m)	Caudal (m3/s)	ORP (mV)	Turbidez (NTU)		
Zona: 18M		8.51	528	7.37	18.5	---	12.8	---	---		
Este (m): 223624											
Norte (m): 9119556											
Altitud (m s. n. m.): 2159											
Precisión (± m): 5		Matriz de agua		Estado del tiempo		Datos para determinar caudal					
		Agua superficial	X	Nublado	X	Largo (m)	Ancho (m)	Altura (m)	Volumen (L)	Tiempo (s)	V (m/s)
		Agua subterránea		Soleado		---	5.0	0.7	---	---	---
OBSERVACIONES		Agua residual		Lluvia		---	5.0	1.4	---	---	0.9
		Agua salina		Nieve		---	5.0	1.1	---	---	0.8
		Otros		Otros		-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
AGUA SUBTERRANEA											
Tipo (Piezómetro, pozo o manantial)						---	Nivel de agua (m)		---		
Profundidad del piezómetro (m)						---	Nivel piezométrico (m)		---		
Diámetro (pulg)						---	Stick up (m)		---		
Otros						---					
Líder del equipo:		Wilmer Ugarte Lopez			FECHA:		23/10/2022				
Responsable de la toma de muestra:		Wilmer Ugarte Lopez			FECHA:		23/10/2022				

Expediente de evaluación: 008-2022-DEAM-EAS				CÓDIGO DE ACCIÓN: 0005-10-2022-417							
LOCALIDAD: Parcoy / Pataz / La Libertad											
PUNTO DE MUESTREO:		M-9A-4		FECHA:		20/10/2022		HORA:		9:52	
UBICACIÓN:											
Río Parcoy, aguas abajo de la desembocadura de la quebrada Alparmarca, (zona de descarga del efluente del depósito de relaves Alparmarca).											
COORDENADAS UTM WGS 84		pH (unid. de pH)	C.E. (µS/cm)	O.D. (mg/L)	T (°C)	Prof. (m)	Caudal (m3/s)	ORP (mV)	Turbidez (NTU)		
Zona: 18M		8.44	529	7.48	18.9	---	13.402	---	---		
Este (m): 223649											
Norte (m): 9119421											
Altitud (m s. n. m.): 2165											
Precisión (± m): 5		Matriz de agua		Estado del tiempo		Datos para determinar caudal					
		Agua superficial	X	Nublado	X	Largo (m)	Ancho (m)	Altura (m)	Volumen (L)	Tiempo (s)	V (m/s)
		Agua subterránea		Soleado		---	5.0	0.8	---	---	0.7
OBSERVACIONES		Agua residual		Lluvia		---	5.0	1.3	---	---	0.9
		Agua salina		Nieve		---	4.8	1.1	---	---	0.9
		Otros		Otros		-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
AGUA SUBTERRANEA											
Tipo (Piezómetro, pozo o manantial)						---	Nivel de agua (m)		---		
Profundidad del piezómetro (m)						---	Nivel piezométrico (m)		---		
Diámetro (pulg)						---	Stick up (m)		---		
Otros						---					
PUNTO DE MUESTREO:		AY-02		FECHA:		19/10/2022		HORA:		10:00	
UBICACIÓN:											
Río Parcoy, aguas arriba de la descarga del efluente del depósito de relave filtrado Yuracyacu (EF-01), ubicado después de la confluencia con el del río Yuracyacu.											
COORDENADAS UTM WGS 84		pH (unid. de pH)	C.E. (µS/cm)	O.D. (mg/L)	T (°C)	Prof. (m)	Caudal (m3/s)	ORP (mV)	Turbidez (NTU)		
Zona: 18M		8.30	271.2	7.69	17.5	---	17.254	---	---		
Este (m): 222686											
Norte (m): 9121807											
Altitud (m s. n. m.): 1970											
Precisión (± m): 5		Matriz de agua		Estado del tiempo		Datos para determinar caudal					
		Agua superficial	X	Nublado	X	Largo (m)	Ancho (m)	Altura (m)	Volumen (L)	Tiempo (s)	V (m/s)
		Agua subterránea		Soleado		---	5.0	1.3	---	---	0.7
OBSERVACIONES		Agua residual		Lluvia		---	5.0	1.6	---	---	1.0
		Agua salina		Nieve		---	4.9	1.2	---	---	0.8
		Otros		Otros		-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
						---	---	---	---	---	---
						-----	-----	-----	-----	-----	-
AGUA SUBTERRANEA											
Tipo (Piezómetro, pozo o manantial)						---	Nivel de agua (m)		---		
Profundidad del piezómetro (m)						---	Nivel piezométrico (m)		---		
Diámetro (pulg)						---	Stick up (m)		---		
Otros						---					
Líder del equipo:		Wilmer Ugarte Lopez			FECHA:		23/10/2022				
Responsable de la toma de muestra:		Wilmer Ugarte Lopez			FECHA:		23/10/2022				

Expediente de evaluación: 008-2022-DEAM-EAS				CÓDIGO DE ACCIÓN: 0005-10-2022-417						
LOCALIDAD: Parcoy / Pataz / La Libertad										
PUNTO DE MUESTREO:		M-7	FECHA:		23/10/2022	HORA:		15:37		
UBICACIÓN:										
Efluente industrial túnel Balcón										
COORDENADAS UTM WGS 84		pH (unid. de pH)	C.E. (µS/cm)	O.D. (mg/L)	T (°C)	Prof. (m)	Caudal (m3/s)	ORP (mV)	Turbidez (NTU)	
Zona: 18M		7.39	1446	5.69	24.3	---	---	---	---	
Este (m): 225918										
Norte (m): 9115523										
Altitud (m s. n. m.): 2545		Matriz de agua		Estado del tiempo		Datos para determinar caudal				
Precisión (± m): 5		Agua superficial	Nublado	X	Largo (m)	Ancho (m)	Altura (m)	Volumen (L)	Tiempo (s)	V (m/s)
OBSERVACIONES		Agua subterránea	Soleado		---	---	---	---	---	---
		Agua residual	X	Lluvia	---	---	---	---	---	---
		Agua salina		Nieve	---	---	---	---	---	---
		Otros		Otros	---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
MEDICION DEL CAUDAL, TOMADO DEL CAUDALIMETRO 78,4 L/s en 6,773.76 m3/día										
AGUA SUBTERRANEA										
Tipo (Piezómetro, pozo o manantial)					---		Nivel de agua (m)		---	
Profundidad del piezómetro (m)					---		Nivel piezométrico (m)		---	
Diámetro (pulg)					---		Stick up (m)		---	
Otros					---					
PUNTO DE MUESTREO:		EF-01	FECHA:		23/10/2022	HORA:		9:45		
UBICACIÓN:										
Aguas de mina del túnel Horizonte										
COORDENADAS UTM WGS 84		pH (unid. de pH)	C.E. (µS/cm)	O.D. (mg/L)	T (°C)	Prof. (m)	Caudal (m3/s)	ORP (mV)	Turbidez (NTU)	
Zona: 18M		8.01	788	7.77	16.6	---	0.0119	---	---	
Este (m): 222617										
Norte (m): 9121822										
Altitud (m s. n. m.): 1961		Matriz de agua		Estado del tiempo		Datos para determinar caudal				
Precisión (± m): 5		Agua superficial	Nublado		Largo (m)	Ancho (m)	Altura (m)	Volumen (L)	Tiempo (s)	V (m/s)
OBSERVACIONES		Agua subterránea	Soleado	X	---	0.20	0.07	---	---	0.3
		Agua residual	X	Lluvia	---	0.20	0.07	---	---	0.4
		Agua salina		Nieve	---	0.10	0.07	---	---	0.3
		Otros		Otros	---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
AGUA SUBTERRANEA										
Tipo (Piezómetro, pozo o manantial)					---		Nivel de agua (m)		---	
Profundidad del piezómetro (m)					---		Nivel piezométrico (m)		---	
Diámetro (pulg)					---		Stick up (m)		---	
Otros					---					
Líder del equipo:		Wilmer Ugarte Lopez			FECHA:		23/10/2022			
Responsable de la toma de muestra:		Wilmer Ugarte Lopez			FECHA:		23/10/2022			

Expediente de evaluación: 008-2022-DEAM-EAS				CÓDIGO DE ACCIÓN: 0005-10-2022-417							
LOCALIDAD: Parcoy / Pataz / La Libertad											
PUNTO DE MUESTREO:		PC-10		FECHA:		19/10/2022	HORA:		15:15		
UBICACIÓN:											
Piezómetro ubicado en la parte baja del depósito de Relaves Alparmarca											
COORDENADAS UTM WGS 84		pH (unid. de pH)	C.E. (µS/cm)	O.D. (mg/L)	T (°C)	Prof. (m)	Caudal (m3/s)	ORP (mV)	Turbidez (NTU)		
Zona: 18M		8.32	184.5	6.77	19.5	---	---	---	---		
Este (m): 224633											
Norte (m): 9117690											
Altitud (m s. n. m.): 2347		Matriz de agua		Estado del tiempo		Datos para determinar caudal					
Precisión (± m): 5		Agua superficial	Nublado	X	Largo (m)	Ancho (m)	Altura (m)	Volumen (L)	Tiempo (s)	V (m/s)	
OBSERVACIONES		Agua subterránea	Soleado	X	---	---	---	---	---	---	
		Agua residual	Lluvia		---	---	---	---	---	---	
		Agua salina	Nieve		---	---	---	---	---	---	---
		Otros	Otros		---	---	---	---	---	---	---
AGUA SUBTERRÁNEA											
Tipo (Piezómetro, pozo o manantial)				Piezómetro		Nivel de agua (m)		---			
Profundidad del piezómetro (m)				30		Nivel piezométrico (m)		10.39			
Diámetro (pulg)				2		Stick up (m)		---			
Otros								---			
PUNTO DE MUESTREO:		PC-01		FECHA:		19/10/2022	HORA:		16:20		
UBICACIÓN:											
Piezómetro ubicado en la parte alta del depósito de Relaves Alparmarca											
COORDENADAS UTM WGS 84		pH (unid. de pH)	C.E. (µS/cm)	O.D. (mg/L)	T (°C)	Prof. (m)					
Zona: 18M		8.37	188.1	6.91	18.2	---	---	---	---		
Este (m): 224493											
Norte (m): 9116567											
Altitud (m s. n. m.): 2608		Matriz de agua		Estado del tiempo		Datos para determinar caudal					
Precisión (± m): 5		Agua superficial	Nublado	X	Largo (m)	Ancho (m)	Altura (m)	Volumen (L)	Tiempo (s)	V (m/s)	
OBSERVACIONES		Agua subterránea	Soleado	X	---	---	---	---	---	---	
		Agua residual	Lluvia		---	---	---	---	---	---	
		Agua salina	Nieve		---	---	---	---	---	---	---
		Otros	Otros		---	---	---	---	---	---	---
AGUA SUBTERRÁNEA											
Tipo (Piezómetro, pozo o manantial)				Piezómetro		Nivel de agua (m)		---			
Profundidad del piezómetro (m)				9.45		Nivel piezométrico (m)		8			
Diámetro (pulg)				---		Stick up (m)		---			
Otros								---			
Líder del equipo:		Wilmer Ugarte Lopez			FECHA:		23/10/2022				
Responsable de la toma de muestra:		Wilmer Ugarte Lopez			FECHA:		23/10/2022				

Expediente de evaluación: 008-2022-DEAM-EAS				CÓDIGO DE ACCIÓN: 0005-10-2022-417						
LOCALIDAD: Parcoy / Patatz / La Libertad										
PUNTO DE MUESTREO:		PC-10		FECHA:		24/10/2022	HORA:		10:10	
UBICACIÓN:										
Piezómetro ubicado en la parte baja del depósito de Relaves Alparmarca										
COORDENADAS UTM WGS 84		pH (unid. de pH)	C.E. (µS/cm)	O.D. (mg/L)	T (°C)	Prof. (m)	Caudal (m3/s)	ORP (mV)	Turbidez (NTU)	
Zona: 18M		8.25	197.8	6.90	19.0	---	---	---	---	
Este (m): 224633										
Norte (m): 9117690										
Altitud (m s. n. m.): 2347		Matriz de agua		Estado del tiempo		Datos para determinar caudal				
Precisión (± m): 5		Agua superficial	Nublado		Largo (m)	Ancho (m)	Altura (m)	Volumen (L)	Tiempo (s)	V (m/s)
		Agua subterránea	X Soleado	X	---	---	---	---	---	---
OBSERVACIONES		Agua residual	Lluvia		---	---	---	---	---	---
		Agua salina	Nieve		---	---	---	---	---	---
		Otros	Otros		---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---	---	---	---
					---	---	---			

Expediente de evaluación: 008-2022-DEAM-EAS				CÓDIGO DE ACCIÓN: 0005-10-2022-417								
LOCALIDAD: Parcoy / Pataz / La Libertad												
PUNTO DE MUESTREO:		M-10	FECHA:		22/10/2022	HORA:		15:37				
UBICACIÓN:												
Efluente industrial túnel Balcón												
COORDENADAS UTM WGS 84		pH (unid. de pH)	C.E. (µS/cm)	O.D. (mg/L)	T (°C)	Prof. (m)	Caudal (m3/s)	ORP (mV)	Turbidez (NTU)			
Zona: 18M		8.52	862	6.88	19.5	---	0.00036932	---	---			
Este (m): 224113												
Norte (m): 9118444												
Altitud (m s. n. m.): --		Matriz de agua		Estado del tiempo		Datos para determinar caudal						
Precisión (± m): 5		Agua superficial		Nublado		X	Largo (m)	Ancho (m)	Altura (m)	Volumen (L)	Tiempo (s)	V (m/s)
		Agua subterránea		Soleado								
OBSERVACIONES		Agua residual	X	Lluvia			---	---	---	1	2.6	---
		Agua salina		Nieve			---	---	---	1	2.78	---
		Otros		Otros			---	---	---	1	2.75	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
							-
							---	---	---	---	---	---
										