

Expediente de evaluación: 008-2022-DEAM-EAS				CÓDIGO DE ACCIÓN: 0002-8-2022-417								
LOCALIDAD: Parcoy / Pataz / La Libertad												
PUNTO DE MUESTREO:		M-1		FECHA:		13/08/2022	HORA:		15:15			
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		8.30	415	6.82	14.0	---	1.132	---	---			
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	0.4	---	---	0.2	
Presencia de actividades mineras aparentemente informales en el cauce del río Parcoy y en zonas adyacentes		Agua salina		Nieve		---	2.0	0.9	---	---	0.4	
		Otros		Otros		---	1.4	0.6	---	---	0.3	
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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:		13/08/2022	HORA:		16:15			
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		8.38	433	6.92	15.2	---	6.446	---	---			
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	0.4	---	---	0.5	
.....		Agua salina		Nieve		---	5.0	1.1	---	---	0.7	
		Otros		Otros		---	3.8	0.7	---	---	0.6	
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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:		13/08/2022					
Responsable de la toma de muestra:		Wilmer Ugarte Lopez			FECHA:		13/08/2022					

Expediente de evaluación: 008-2022-DEAM-EAS				CÓDIGO DE ACCIÓN: 0002-8-2022-417							
LOCALIDAD: Parcoy / Pataz / La Libertad											
PUNTO DE MUESTREO:		A-6		FECHA:		14/08/2022	HORA:		8:30		
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		8.06	250	6.94	16.2	---	0.904	---	---		
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					
OBSERVACIONES		Agua superficial	X	Nublado	X	Largo (m)	Ancho (m)	Altura (m)	Volumen (L)	Tiempo (s)	V (m/s)
		Agua subterránea		Soleado		---	2.0	0.3	---	---	0.3
		Agua residual		Lluvia		---	2.0	0.5	---	---	0.5
		Agua salina		Nieve		---	1.4	0.4	---	---	0.4
		Otros		Otros		-----	-----	-----	-----	-----	-
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Expediente de evaluación: 008-2022-DEAM-EAS				CÓDIGO DE ACCIÓN: 0002-8-2022-417						
LOCALIDAD: Parcoy / Pataz / La Libertad										
PUNTO DE MUESTREO:		M-10A-2		FECHA:		14/08/2022	HORA:		14:45	
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		8.49	567	6.64	19.0	---	8.920	---	---	
Este (m): 224101										
Norte (m): 9118537										
Altitud (m s. n. m.): 2241		Matriz de agua		Estado del tiempo		Datos para determinar caudal				
Precisión (± m): 5		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	---	---	0.7
		Otros		Otros	---	4.6	1.0	---	---	0.7
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Expediente de evaluación: 008-2022-DEAM-EAS				CÓDIGO DE ACCIÓN: 0002-8-2022-417							
LOCALIDAD: Parcoy / Pataz / La Libertad											
PUNTO DE MUESTREO:		M-9A-4		FECHA:		15/08/2022	HORA:		12:17		
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		8.31	460	7.22	16.8	---	10.50	---	---		
Este (m): 223649											
Norte (m): 9119421											
Altitud (m s. n. m.): 2165		Matriz de agua		Estado del tiempo		Datos para determinar caudal					
Precisión (± m): 5		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	---	---	0.6
OBSERVACIONES		Agua residual		Lluvia		---	5.0	1.2	---	---	0.8
		Agua salina		Nieve		---	4.5	1.0	---	---	0.8
		Otros		Otros		-----	-----	-----	-----	-----	-
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Expediente de evaluación: 008-2022-DEAM-EAS				CÓDIGO DE ACCIÓN: 0002-8-2022-417						
LOCALIDAD: Parcoy / Pataz / La Libertad										
PUNTO DE MUESTREO:		AY-03	FECHA:		16/08/2022	HORA:		15:33		
UBICACIÓN:										
Aguas abajo del río Parcoy (después de la confluencia 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		8.10	288	7.34	16.0	---	15.704	---	---	
Este (m): 222473										
Norte (m): 9121931										
Altitud (m s. n. m.): 1951		Matriz de agua		Estado del tiempo		Datos para determinar caudal				
Precisión (± m): 5		Agua superficial	X	Nublado	Largo (m)	Ancho (m)	Altura (m)	Volumen (L)	Tiempo (s)	V (m/s)
		Agua subterránea		Soleado						
OBSERVACIONES		Agua residual		Lluvia	---	5.0	1.4	---	---	0.7
		Agua salina		Nieve	---	5.0	1.7	---	---	0.8
		Otros		Otros	---	5.2	1.1	---	---	0.7
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Expediente de evaluación: 008-2022-DEAM-EAS				CÓDIGO DE ACCIÓN: 0002-8-2022-417						
LOCALIDAD: Parcoy / Pataz / La Libertad										
PUNTO DE MUESTREO:		M-10		FECHA:		14/08/2022	HORA:		13:13	
UBICACIÓN:										
Efluente procedente de la planta de degradación Chilcapampa										
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		8.36	119 7	6.22	22.2	---	0.00036262	---	---	
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		---	---	---	1	2.65	---
OBSERVACIONES		Agua residual	X	Lluvia	---	---	---	1	2.83	---
		Agua salina		Nieve	---	---	---	1	2.80	---
		Otros		Otros	---	---	---	1	2.80	---
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Expediente de evaluación: 008-2022-DEAM-EAS				CÓDIGO DE ACCIÓN: 0002-8-2022-417						
LOCALIDAD: Parcoy / Pataz / La Libertad										
PUNTO DE MUESTREO:		M-7		FECHA:		17/08/2022		HORA:	10:15	
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		7.45	1481	5.94	23.7	---	---	---	---	
Este (m): 225918										
Norte (m): 9115523										
Altitud (m s. n. m.): 2545										
Precisión (± m): 5		Matriz de agua	Estado del tiempo		Datos para determinar caudal					
OBSERVACIONES		Agua superficial	Nublado	X	Largo (m)	Ancho (m)	Altura (m)	Volumen (L)	Tiempo (s)	V (m/s)
		Agua subterránea	Soleado		---	---	---	---	---	---
		Agua residual	X	Lluvia	---	---	---	---	---	---
		Agua salina		Nieve	---	---	---	---	---	---
MEDICION DEL CAUDAL, TOMADO DEL CAUDALIMETRO 78,4 L/s en 6,773.76 m3/día		Otros	Otros		---	---	---	---	---	---
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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:		17/08/2022		HORA:	14:36	
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		7.65	784	7.65	17.4	---	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	X	Largo (m)	Ancho (m)	Altura (m)	Volumen (L)	Tiempo (s)	V (m/s)
OBSERVACIONES		Agua subterránea	Soleado		---	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	---	---	---	---	---	---
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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:		17/08/2022			
Responsable de la toma de muestra:		Wilmer Ugarte Lopez			FECHA:		17/08/2022			

Expediente de evaluación: 008-2022-DEAM-EAS				CÓDIGO DE ACCIÓN: 0002-8-2022-417								
LOCALIDAD: Parcoy / Pataz / La Libertad												
PUNTO DE MUESTREO:		PA-14		FECHA:		17/08/2022	HORA:		11:34			
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	223	7.10	20.0	---	---	---	---			
Este (m): 223581												
Norte (m): 9119339												
Altitud (m s. n. m.): 2201												
Precisión (± m): 5		Matriz de agua		Estado del tiempo		Datos para determinar caudal						
OBSERVACIONES		Agua superficial	Nublado	X	Largo (m)	Ancho (m)	Altura (m)	Volumen (L)	Tiempo (s)	V (m/s)		
		Agua subterránea	Soleado		---	---	---	---	---	---	---	
		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-10		FECHA:		17/08/2022	HORA:		16:51			
UBICACIÓN:												
Aguas debajo Depósito de Desmonte Curaubamba												
COORDENADAS UTM WGS 84		pH (unid. de pH)	C.E. (µS/cm)	O.D. (mg/L)	T (°C)	Prof. (m)						
Zona: 18M		8.00	186.2	6.34	21.4	---	---	---	---			
Este (m): 224633												
Norte (m): 9117690												
Altitud (m s. n. m.): 2347												
Precisión (± m): 5		Matriz de agua		Estado del tiempo		Datos para determinar caudal						
OBSERVACIONES		Agua superficial	Nublado	X	Largo (m)	Ancho (m)	Altura (m)	Volumen (L)	Tiempo (s)	V (m/s)		
		Agua subterránea	Soleado		---	---	---	---	---	---	---	
		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)		14.8				
Diámetro (pulg)				2		Stick up (m)		---				
Otros				---								
Líder del equipo:		Wilmer Ugarte Lopez		FECHA:		17/08/2022						
Responsable de la toma de muestra:		Wilmer Ugarte Lopez		FECHA:		17/08/2022						

Expediente de evaluación: 008-2022-DEAM-EAS				CÓDIGO DE ACCIÓN: 0002-8-2022-417					
LOCALIDAD: Parcoy / Pataz / La Libertad									
PUNTO DE MUESTREO:		M-9		FECHA:		15/08/2022	HORA:		11:32
UBICACIÓN:									
Efluente tratado procedente del depósito de relave Alpamarca									
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		---	----	---	--	---	---	---	---
Este (m): 223597		---	----	---	--	---	---	---	---
Norte (m): 9119441		---	----	---	--	---	---	---	---
Altitud (m s. n. m.): 2175		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)
Zona: 18M		Agua subterránea	Soleado	X	---	---	---	---	---
OBSERVACIONES		Agua residual	Lluvia	---	---	---	---	---	---
No hubo flujo.		Agua salina	Nieve	---	---	---	---	---	---
		Otros	Otros	---	---	---	---	---	---
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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:				FECHA:			HORA:		
UBICACIÓN:									
COORDENADAS UTM WGS 84		pH (unid. de pH)	C.E. (µS/cm)	O.D. (mg/L)	T (°C)	Prof. (m)			
Zona:		--	--	--	--	---	---	---	---
Este (m):		--	--	--	--	---	---	---	---
Norte (m):		--	--	--	--	---	---	---	---
Altitud (m s. n. m.):		Matriz de agua		Estado del tiempo		Datos para determinar caudal			
Precisión (± m):		Agua superficial	Nublado	Largo (m)	Ancho (m)	Altura (m)	Volumen (L)	Tiempo (s)	V (m/s)
		Agua subterránea	Soleado	---	---	---	---	---	---
OBSERVACIONES		Agua residual	Lluvia	---	---	---	---	---	---
		Agua salina	Nieve	---	---	---	---	---	---
		Otros	Otros	---	---	---	---	---	---
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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:		15/08/2022			
Responsable de la toma de muestra:		Wilmer Ugarte Lopez		FECHA:		15/08/2022			