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## **ANEXO 2**

### **Catastro infraestructuras PSAH**

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Nombre infraestructura	UTM Norte (m)	UTM Este (m)	Cota Punto Referencia (msnm WGS 84)
1001	7.392.245,76	575.189,80	2.301,100
1024	7.391.600,13	589.474,55	2.300,950
1027	7.424.644,59	589.797,12	2.308,776
1028	7.383.997,75	584.432,98	2.301,448
1906	7.418.675,34	576.809,17	2.300,802
2018	7.391.893,05	578.015,44	2.301,024
2021	7.414.638,58	577.629,34	2.300,637
2028	7.410.286,46	570.639,50	2.300,938
2037	7.391.949,15	583.465,29	2.301,929
2040	7.390.079,71	565.600,10	2.301,684
ALLANA	7.414.838,02	598.957,61	2.403,968
Reglilla Barros Negros SQM	7.416.975,78	585.802,73	2.300,380
Reglilla Barros Negros CONAF	7.416.990,13	585.823,71	2.300,862
Reglilla Burro Muerto SQM	7.424.265,03	584.156,08	2.301,600
Reglilla Burro Muerto CONAF	7.424.262,51	584.153,88	2.301,997
C4-B	7.424.698,44	579.751,95	2.302,711
CA-2015	7.396.451,89	596.135,70	2.325.266
CAMAR-2	7.409.831,33	598.072,11	2.380,057
Reglilla Chaxa SQM	7.419.630,86	585.209,98	2.301,208
Reglilla Chaxa CONAF	7.419.626,78	585.233,10	2.300,973
Cuña 1	7.417.502,39	588.591,76	2.301,228
Cuña 2	7.417.900,83	589.402,32	2.301,855
Cuña 3	7.420.047,17	592.879,01	2.321,805
Cuña 4	7.405.987,03	594.841,82	2.306,203
Cuña 5	7.406.109,50	593.361,94	2.302,651
Cuña 6	7.379.240,90	591.524,35	2.307,281
Cuña 7	7.382.218,75	587.722,59	2.301,859
D-2	7.403.779,68	588.662,62	2.300,971
E-101	7.391.636,43	564.581,51	2.301,792
E-324	7.393.056,03	563.023,21	2.302,124
EIA-5	7.417.291,46	573.177,57	2.301,128
GD-01	7.414.650,92	584.086,18	2.300,235
GD-02	7.403.739,16	589.933,79	2.300,528
GD-03	7.382.384,73	586.688,01	2.301,051
GD-04	7.383.853,99	586.142,95	2.300,880
L10-1	7.380.660,66	591.440,07	2.305,996
L10-10	7.382.729,91	588.561,22	2.302,046
L10-11	7.386.713,22	585.193,01	2.301,782

<b>L10-12</b>	7.388.772,89	584.400,10	2.301,832
<b>L10-13</b>	7.382.758,82	584.610,14	2.301,961
<b>L10-14</b>	7.382.944,90	582.762,63	2.302,007
<b>L10-15</b>	7.383.839,76	589.152,94	2.301,859
<b>L10-16</b>	7.386.333,41	590.452,50	2.301,935
<b>L10-17</b>	7.388.611,17	591.616,70	2.301,901
<b>L10-2</b>	7.382.683,18	589.534,38	2.301,602
<b>L10-3</b>	7.381.276,01	585.556,47	2.301,877
<b>L10-4</b>	7.381.407,76	584.907,77	2.301,882
<b>L10-5</b>	7.382.630,96	585.257,67	2.301,747
<b>L10-6</b>	7.382.951,64	586.579,51	2.301,760
<b>L10-7</b>	7.382.733,40	587.591,24	2.301,976
<b>L10-8</b>	7.383.323,18	587.479,41	2.301,993
<b>L10-9</b>	7.383.281,37	588.859,80	2.302,035
<b>L1-1</b>	7.421.793,68	599.847,36	2.409,660
<b>L1-10</b>	7.417.519,37	587.382,18	2.301,598
<b>L11-1</b>	7.441.707,88	581.776,79	2.320,321
<b>L1-11</b>	7.417.156,52	584.692,92	2.301,609
<b>L11-2</b>	7.439.199,35	581.780,85	2.316,354
<b>L1-12</b>	7.417.177,42	584.274,72	2.301,334
<b>L1-13</b>	7.416.803,94	584.879,54	2.301,414
<b>L1-14</b>	7.416.826,93	584.228,12	2.301,392
<b>L1-15</b>	7.418.751,86	586.572,23	2.301,735
<b>L1-16</b>	7.418.741,73	586.100,99	2.301,552
<b>L1-17</b>	7.418.238,88	591.453,18	2.307,476
<b>L11-G1</b>	7.439.198,28	582.072,08	2.315,557
<b>L1-2</b>	7.420.524,99	596.153,54	2.359,445
<b>L12-1</b>	7.377.872,51	573.891,04	2.302,296 <sup>1</sup>
<b>L12-2</b>	7.375.144,82	578.896,15	2.303,844
<b>L12-3</b>	7.374.917,35	576.268,70	2.302,671
<b>L12-4</b>	7.372.652,70	578.423,07	2.304,722
<b>L1-3</b>	7.418.707,93	593.724,57	2.327,733
<b>L13-1</b>	7.411.009,38	594.639,53	2.319,445
<b>L13-2</b>	7.410.993,52	593.833,90	2.309,226
<b>L13-3</b>	7.410.998,36	593.054,20	2.304,814
<b>L13-4</b>	7.410.799,97	592.412,37	2.302,472
<b>L13-5</b>	7.411.029,60	591.375,83	2.301,781
<b>L13-6</b>	7.411.019,59	590.625,64	2.301,813

<sup>1</sup> Durante el segundo semestre de 2016, el Antepozo del punto L12-1 fue destruido por un camión por lo cual este se reconstruyó. Lo anterior implica un cambio en la cota del punto de referencia desde los 2302,348 a 2302,296 (m.s.n.m) DATUM WGS-84.

<b>L13-7</b>	7.411.028,93	589.876,44	2.301,561
<b>L1-4</b>	7.416.184,62	588.137,91	2.300,800
<b>L14-1</b>	7.407.109,56	595.569,21	2.316,875
<b>L14-2</b>	7.407.113,03	594.810,17	2.308,514
<b>L14-3</b>	7.407.115,77	593.698,94	2.302,865
<b>L14-4</b>	7.407.155,28	592.926,14	2.302,025
<b>L14-5</b>	7.407.286,22	592.186,92	2.302,011
<b>L14-6</b>	7.407.328,43	591.425,98	2.301,816
<b>L14-7</b>	7.407.519,58	590.655,99	2.302,283
<b>L1-5</b>	7.415.017,40	584.234,49	2.300,290
<b>L1-6</b>	7.416.216,46	589.607,28	2.301,384
<b>L1-7</b>	7.416.377,66	587.729,78	2.301,458
<b>L1-8</b>	7.416.079,59	584.706,27	2.301,307
<b>L1-9</b>	7.417.742,33	587.632,21	2.301,037
<b>L1-G4 POZO</b>	7414816,62	585210,67	2.300,141
<b>L1-G4 REGLILLA</b>	7.414.816,88	585.209,91	2.300,165
<b>L2-10</b>	7.415.103,77	587.393,93	2.300,721
<b>L2-11</b>	7.412.578,24	586.094,56	2.301,452
<b>L2-12</b>	7.411.424,44	584.748,21	2.301,040
<b>L2-13</b>	7.412.988,93	584.841,10	2.300,931
<b>L2-14</b>	7.410.995,84	581.183,37	2.301,342
<b>L2-15</b>	7.414.216,52	587.447,08	2.301,408
<b>L2-16</b>	7.415.088,34	586.220,87	2.301,232
<b>L2-17</b>	7.414.013,15	584.891,72	2.300,633
<b>L2-18</b>	7.416.049,21	583.665,36	2.301,101
<b>L2-19</b>	7.416.047,04	583.117,58	2.301,184
<b>L2-2</b>	7.416.112,70	599.286,65	2.418,497
<b>L2-20</b>	7.414.991,08	580.892,43	2.301,263
<b>L2-21</b>	7.414.623,11	587.351,84	2.301,218
<b>L2-22</b>	7.416.018,44	584.095,06	2.301,255
<b>L2-23</b>	7.415.762,07	586.243,78	2.301,159
<b>L2-24</b>	7.415.372,73	585.261,40	2.300,618
<b>L2-25</b>	7.414.726,68	592.439,51	2.310,292
<b>L2-26</b>	7.414.918,14	593.786,54	2.323,373
<b>L2-27</b>	7.412.130,85	593.470,53	2.312,887
<b>L2-28</b>	7.412.131,55	594.586,00	2.320,697
<b>L2-3</b>	7.415.774,08	596.808,82	2.366,941
<b>L2-4</b>	7.414.608,96	591.850,74	2.304,882
<b>L2-5</b>	7.414.004,44	588.272,06	2.300,529
<b>L2-6 (SOPM-7)</b>	7.412.045,65	583.567,77	2.300,668
<b>L2-7</b>	7.415.628,87	593.776,83	2.323,717

<b>L2-8</b>	7.416.184,71	590.828,17	2.303,138
<b>L2-9</b>	7.414.388,91	586.444,89	2.301,344
<b>L3-10</b>	7.409.577,91	591.215,47	2.301,612
<b>L3-11</b>	7.409.581,80	591.057,16	2.301,707
<b>L3-12</b>	7.409.581,41	590.857,32	2.301,858
<b>L3-13</b>	7.409.571,53	590.538,58	2.301,580
<b>L3-14</b>	7.409.571,03	589.772,73	2.301,495
<b>L3-15</b>	7.409.664,06	594.922,47	2.320,062
<b>L3-16</b>	7.409.802,83	597.731,31	2.371,999
<b>L3-2</b>	7.409.615,43	598.844,96	2.395,219
<b>L3-3</b>	7.409.496,34	594.614,77	2.314,614
<b>L3-4 (SOPM-8)</b>	7.408.833,14	587.551,70	2.300,724
<b>L3-5</b>	7.409.547,43	593.776,02	2.304,836
<b>L3-6</b>	7.409.554,85	593.121,38	2.303,532
<b>L3-7</b>	7.409.604,10	592.414,49	2.302,251
<b>L3-8</b>	7.409.579,48	591.523,73	2.302,089
<b>L3-9</b>	7.409.573,46	591.314,03	2.301,643
<b>L4-10<sup>2</sup></b>	7.406.210,74	592.251,60	2.301,171
<b>L4-11</b>	7.406.056,46	590.533,41	2.301,333
<b>L4-12</b>	7.406.056,63	590.333,97	2.300,949
<b>L4-13</b>	7.406.057,99	590.201,70	2.300,918
<b>L4-14</b>	7.406.059,64	590.068,60	2.301,228
<b>L4-15</b>	7.406.063,31	589.870,94	2.301,015
<b>L4-16</b>	7.406.099,71	588.869,96	2.301,355
<b>L4-17</b>	7.405.962,95	595.169,37	2.309,002
<b>L4-3</b>	7.406.265,01	596.113,20	2.320,533
<b>L4-4</b>	7.405.733,37	594.797,86	2.306,370
<b>L4-5</b>	7.406.037,02	589.607,69	2.301,229
<b>L4-6</b>	7.405.467,67	585.967,23	2.300,684
<b>L4-7</b>	7.406.037,97	593.769,46	2.302,967
<b>L4-8</b>	7.406.127,78	593.360,43	2.302,821
<b>L4-9</b>	7.406.144,43	592.623,50	2.302,175
<b>L5-1</b>	7.403.308,44	600.351,66	2.426,055
<b>L5-10</b>	7.403.629,28	591.910,90	2.301,595
<b>L5-11</b>	7.403.629,66	591.830,74	2.301,643
<b>L5-12</b>	7.403.639,73	591.686,42	2.301,628
<b>L5-13</b>	7.403.659,85	591.481,59	2.301,661
<b>L5-14</b>	7.403.675,64	591.163,34	2.301,442
<b>L5-15</b>	7.403.723,31	590.791,18	2.301,064

<sup>2</sup> Con fecha 26 de septiembre de 2019 se efectuó una campaña topográfica de verificación de algunos puntos del PSAH, verificándose para el caso del punto L4-10 una diferencia en su ubicación de 95.74 mts.

L5-2	7.403.455,33	597.045,65	2.334,165
L5-3	7.403.543,67	593.971,42	2.302,716
L5-4	7.403.702,59	589.565,67	2.300,658
L5-6	7.404.843,41	595.818,48	2.312,472
L5-7	7.403.481,35	595.448,97	2.309,688
L5-8	7.403.503,25	594.827,12	2.305,104
L5-9	7.403.630,73	592.139,00	2.302,081
L5-G3 POZO	7.403.837,53	593.160,17	2.301,313
L5-G3 REGLILLA	7.403.843,51	593.160,26	2.301,135
L7-1	7.426.657,16	599.732,77	2.409,614
L7-10	7.420.010,68	586.780,32	2.301,644
L7-11	7.419.861,28	586.521,82	2.301,501
L7-12	7.419.493,44	583.933,51	2.301,489
L7-13	7.422.455,20	594.116,42	2.334,491
L7-14	7.422.403,41	592.286,51	2.318,327
L7-15	7.422.678,15	599.594,22	2.399,546
L7-2	7.425.182,29	597.177,20	2.369,328
L7-3	7.422.583,15	591.858,28	2.314,822
L7-4	7.422.857,86	588.645,26	2.303,122
L7-5	7.420.404,72	583.851,59	2.300,811
L7-6	7.422.551,97	595.207,43	2.347,511
L7-7	7.422.842,99	589.093,50	2.305,543
L7-G1	7.418.821,78	585.706,58	2.300,500
L7-G2 POZO	7.422.646,49	588.066,95	2.301,747
L7-G2 REGLILLA	7.422.647,34	588.065,18	2.301,963
L9-1	7.396.682,17	594.862,35	2.316,571
L9-2	7.396.786,42	594.486,72	2.314,203
REGLILLA LAGUNA INTERNA CONAF	7.382.021,41	586.614,80	2.301,456
REGLILLA LAGUNA SALADA CONAF	7.380.706,65	587.624,46	2.301,963
REGLILLA LAGUNA SALADITA CONAF	7.381.471,23	587.023,02	2.301,762
M1-C	7.389.114,68	566.253,54	2.301,875
M2-C	7.389.269,26	558.734,48	2.302,084
M7	7.393.786,88	562.662,52	2.301,738
MULLAY-1	7.422.645,06	599.918,95	2.404,737
P1-1	7.414.806,51	584.113,59	2.300,981
P1-2	7.414.914,37	584.160,13	2.300,561
P1-3	7.415.116,90	584.260,37	2.300,848
P1-4	7.415.196,07	584.319,07	2.300,638
P1-5	7.415.371,58	584.435,04	2.300,868
P1-6	7.415.521,19	584.560,00	2.300,951
P1-7	7.415.711,36	584.675,85	2.301,011

<b>P2</b>	7.396.429,30	596.087,06	2.325,481
<b>P2-1</b>	7.414.518,19	586.394,92	2.301,185
<b>P2-2</b>	7.414.712,53	586.329,18	2.301,133
<b>P2-3</b>	7.414.892,18	586.271,53	2.301,025
<b>P2-4</b>	7.415.282,24	586.212,91	2.301,235
<b>P2-5</b>	7.415.498,33	586.219,67	2.301,118
<b>PUENTE SAN LUIS POZO</b>	7.424.282,45	584.142,70	2.301,742
<b>PUENTE SAN LUIS REGLILLA</b>	7.424.281,17	584.141,11	2.301,915
<b>REGLILLA PUILAR SQM</b>	7.422.497,03	587.947,44	2.301,766
<b>REGLILLA PUILAR CONAF</b>	7.422.502,19	587.940,75	2.302,158
<b>RC-1<sup>3</sup></b>	7.418.722,68	585.667,12	2.301,291
<b>RC-2</b>	7.418.806,69	585.190,75	2.301,518
<b>RC-3</b>	7.418.891,06	584.692,25	2.301,690
<b>RC-4</b>	7.418.973,52	584.205,22	2.301,793
<b>RC-5</b>	7.419.052,71	583.702,71	2.301,640
<b>RC-6</b>	7.419.629,19	583.815,20	2.301,601
<b>RC-7</b>	7.417.527,96	583.752,41	2.301,386
<b>SAMPLE-4</b>	7.379.370,30	553.220,51	2.303,270
<b>SOCAIRE-5B</b>	7.406.165,63	598.163,88	2.361,807
<b>SOPE-6</b>	7.402.011,78	571.691,00	2.301,282
<b>SOPM-10</b>	7.398.886,22	586.801,85	2.300,850
<b>SOPM-11</b>	7.393.742,61	586.119,55	2.301,289
<b>SOPM-12C</b>	7.394.294,05	574.439,39	2.301,288
<b>SOPM-13</b>	7.413.064,81	583.766,44	2.300,940
<b>SOPM-14</b>	7.414.053,45	583.989,19	2.300,622
<b>SOPM-2</b>	7.404.051,55	571.302,23	2.300,871
<b>SOPM-4</b>	7.409.930,50	578.577,31	2.300,912
<b>SOPM-5</b>	7.405.276,74	579.550,51	2.300,916
<b>SOPM-9</b>	7.403.823,46	587.169,69	2.300,793
<b>REGLILLA TILOPOZO</b>	7.369.363,76	577.756,46	2.309,549
<b>ZAR-C-S</b>	7.387.589,96	547.921,52	2.303,141
<b>Est. Meteo. KCI</b>	7.396.240,54	561.376,16	
<b>Est. Meteo. Chaxa</b>	7.424.240,32	583.530,01	
<b>Aforo Barros Negros</b>	7.419.414,10	585.318,18	
<b>Aforo Saladita</b>	7.380.535,23	587.408,43	
<b>Aforo Salada</b>	7.379.852,46	589.165,20	
<b>Puente San Luis Aforo</b>	7.424.269,00	584.148,17	

<sup>3</sup> Las coordenadas de los pozos RC-1, RC-2, RC-3, RC-4, RC-5, RC-6 y RC-7 corresponden a las presentadas en el informe N° 8 del PSAH transformadas a WGS-84. Además, debido a la inestabilidad natural que posee el terreno en el punto de ubicación del pozo RC-1 (movimientos en costra salina por saturación de esta), durante septiembre de 2019 se realizó una medición topográfica del punto (ver anexo 3) verificando una variación de 0,167 m respecto a la cota informada durante la construcción del pozo (informe PSAH N°8).

