



Works approval number W6688/2022/1

Works approval holder IB Operations Pty Ltd
ACN 165 513 557
Registered business address Level 2, Hyatt Centre
87 Adelaide Terrace
EAST PERTH WA 6004
DWER file number DER2022/000117

Duration 13/09/2022 to 12/09/2027

Date of issue 13/09/2022

Premises details North Star Stage 2 – Junction Camp WWTP
Great Northern Highway
MARBLE BAR WA 6760
Legal description -
Part of Miscellaneous Licence 45/625
IRON BRIDGE JUNCTION
As defined by the coordinates in Schedule 1

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed design capacity
Category 54: Sewage facility: premises – a) On which sewage is treated (excluding septic tanks); or b) From which treated sewage is discharged onto land or into waters.	108, 000 litres per day

This works approval is granted to the works approval holder, subject to the attached conditions, on 13 September 2022, by:

Marko Pasalich
Senior Environmental Officer

an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Works approval history

Date	Reference number	Summary of changes
13/09/2022	W6688/2022/1	This works approval issued

Interpretation

In this works approval:

- (a) the words 'including', 'includes' and 'include' in conditions mean "including but not limited to", and similar, as appropriate;
- (b) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;
- (c) where tables are used in a condition, each row in a table constitutes a separate condition;
- (d) any reference to an Australian or other standard, guideline, or code of practice in this works approval:
 - (i) if dated, refers to that particular version; and
 - (ii) if not dated, refers to the latest version and therefore may be subject to change over time;
- (e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and
- (f) unless specified otherwise, all definitions are in accordance with the EP Act.

NOTE: This works approval requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this works approval.

Works approval conditions

The works approval holder must ensure that the following conditions are complied with:

Construction phase

Infrastructure and equipment

1. The works approval holder must:
 - (a) construct and/or install the infrastructure and/or equipment;
 - (b) in accordance with the corresponding design and construction / installation requirements; and
 - (c) at the corresponding infrastructure location; and
 - (d) within the corresponding timeframe,as set out in Table 1

Table 1: Design and construction / installation requirements

Infrastructure	Design and construction / installation requirements	Infrastructure location
Wastewater Treatment Plant (WWTP)	The WWTP must be designed and installed to meet the following specifications: a) Comprising of the following equipment: i. 3 x 50, 000L raw wastewater storage balance tank/s with a combined storage volume of at least 150 kl ii. Two (2) fixed film aerobic reactor tank with a combined volume of 36 kl and interconnecting pipework and control system iii. Four (4) air blowers iv. Four (4) influent feed pumps v. Two (2) effluent pumps vi. Reverse osmosis (RO) brine storage tank/s with a combined storage volume of at least 28 kl vii. Two (2) chlorine contact tank with a combined minimum volume of 20 kl, and with chlorine recirculation pump and level control switches viii. One (1) chlorine dosing and analyser system b) All above ground infrastructure located on an impervious, bunded hardstand c) Be able to receive and treat 108,000L of wastewater per day (consisting of 78,000L of wastewater from accommodation, 30,000L brine	As per Schedule 1, Figure 2: Premises layout

	reject). d) Able to treat sewage to the following output standards: i. 5-day biochemical oxygen demand (BOD₅) of <20 mg/l ii. pH 6.5 - 8.5 iii. Total suspended solids (TSS) <30 mg/l iv. Total nitrogen (TN) <30 mg/l v. Total phosphorus (TP) <12 mg/l vi. <i>E.coli</i> <1000 cfu/100 ml vii. Residual free chlorine 0.2 mg/l / 2.0 mg/l e) Have a sealed connection point for pumping-out sludge for offsite disposal to a licensed waste facility f) Flow metres to be installed to record the influent/effluent volumes that are received/sent from the WWTP. Flow metres to be located on the output line after the WWTP g) Incorporate an alarm system of warning beacons, as well as audible and visual pump fault alarms, which will activate in the event of: i. Pump faults ii. High tank levels iii. Tank overflows h) Allow for manual operation if necessary	
Irrigation sprayfield	Irrigation sprayfield to meet the following specifications: a) Installation of 3.2 ha sprayfield, with an additional 5 m perimeter spray-drift buffer b) Maximum slope gradient of 1.8% across the entire sprayfield area c) Ensure no ponding or pooling of blended effluent occurs d) Ensure that the discharge of blended effluent only occurs over the designated irrigation sprayfield e) Fenced with a lockable vehicle access gate f) Warning signage to be installed on all sides of fencing advising the area is used for the disposal of treated wastewater g) Pipework fitted with terminal flushing valves	As per Schedule 1, Figure 2: Premises layout
All infrastructure and equipment	a) All sewage storage and treatment tanks, vessels, pipework, fittings, and joints are to be constructed of impervious material and free from leaks and/or defects b) All sewage storage and treatment tanks, vessels,	As per Schedule 1, Figure 2: Premises layout

	pipework, fittings, and joins must be designed and constructed to ensure that stormwater does not enter the sewage treatment system and treated wastewater storage infrastructure c) All pipework, fittings and pumps must be hydraulically tested to the required pressure and visually inspected for any defects to ensure infrastructure is fit for purpose prior to use d) All chemicals to be stored separately within an above ground vessel/s that is contained within bunds of a capacity of 110% of the total vessel/s contents e) Chemicals to be stored in accordance with Australian Standards AS1940-2004, AS3780-2008 and/or AS/NZS 3833-2007 dependent on the type of chemical to be stored	
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Compliance reporting

2. The works approval holder must within 30 calendar days of an item of infrastructure or equipment required by condition 1 being constructed and/or installed:
 - (a) undertake an audit of their compliance with the requirements of condition 1; and
 - (b) prepare and submit to the CEO an Environmental Compliance Report on that compliance.

3. The Environmental Compliance Report required by condition 2, must include as a minimum the following:
 - (a) certification by a suitably qualified engineer that the items of infrastructure or component(s) thereof, as specified in condition 1, have been constructed in accordance with the relevant requirements specified in condition 1;
 - (b) as constructed plans and a detailed site plan for each item of infrastructure or component of infrastructure specified in condition 1; and
 - (c) be signed by a person authorised to represent the works approval holder and contains the printed name and position of that person.

Environmental commissioning phase

Environmental commissioning requirements and emission limits

4. The works approval holder may only commence environmental commissioning of an item of infrastructure listed in condition 5 once an Environmental Compliance Report has been submitted for that item of infrastructure in accordance with condition 2 of this works approval.
5. Any environmental commissioning activities undertaken for an item of infrastructure specified in Table 2 may only be carried out:
 - (a) In accordance with the corresponding commissioning requirements; and
 - (b) For the corresponding authorised commissioning duration as set out in Table 2

Table 2: Environmental commissioning requirements

Infrastructure	Commissioning requirements	Authorised commissioning duration
Irrigation sprayfield	a) Not more than 108 m³ per day of blended effluent to be applied to the designated spray irrigation area b) Irrigation via low drift fan-spray nozzles spaced for even distribution c) No discharge of undiluted RO brine is permitted d) Irrigation to be managed to prevent ponding and pooling of blended effluent on the ground surface of the irrigation sprayfield e) No blended effluent is permitted to run off or discharge beyond the irrigation sprayfield	A period not exceeding 60 calendar days in aggregate
WWTP and pipeline	a) Volumetric flow metres are maintained on the WWTP inlet and outlet to the irrigation sprayfield b) Sludge is contained within sealed sludge tanks prior to removal by a licensed waste carrier for disposal to a licenced disposal facility c) Screenings are contained within a sealed bin prior to removal for disposal to a licenced disposal facility d) Spills of wastewater or chemicals outside of a vessel/container are cleaned up immediately	

6. During environmental commissioning, the works approval holder must ensure that the emission(s) specified in Table 3, are discharged only from the corresponding discharge point(s) and only at the corresponding discharge point location(s).

Table 3: Authorised discharge points during commissioning

Emission	Discharge point	Discharge point location
Blended effluent	Sprinklers within the irrigation sprayfield	Irrigation sprayfield as shown in Schedule 1

Monitoring during environmental commissioning

7. The works approval holder must monitor emissions during environmental commissioning in accordance with Table 4.

Table 4: Emissions and discharge monitoring during environmental commissioning

Discharge point	Monitoring location	Parameter	Frequency	Averaging period	Unit
Irrigation sprayfield	WWTP outlet	<i>E. coli</i>	Weekly	Spot sample	Cfu/100 ml
		Thermotolerant coliforms			
		BOD ₅			
		Total suspended solids			mg/l
		Total nitrogen			
		Total phosphorus			
		pH ¹	Daily or continuous	N/A	pH units
		Residual chlorine ¹			mg/l
		Cumulative flow volume	Continuous		m ³

Note 1: In-field non-NATA accredited analysis is permitted.

8. For the monitoring activity required by condition 7, the works approval holder must:
- Record the results;
 - Handle and preserve all water samples collected during the monitoring of the WWTP in accordance with AS/NZS 566.7.1-1998 *Water Quality – Sampling*; and
 - Have analyses conducted by a laboratory with current National Association of Testing Authorities (NATA) accreditation for the parameters specified.

Environmental commissioning report

9. The works approval holder must submit to the CEO an Environmental Commissioning Report within 30 calendar days of the completion date of environmental

commissioning for each item of infrastructure specified in Table 1.

- 10.** The works approval holder must ensure the Environmental Commissioning Report required by condition 9 of this works approval includes the following:
- (a) A summary of the environmental commissioning activities undertaken, including date(s) for commencement of commissioning, timeframes, and amount of wastewater produced.
 - (b) A summary of blended effluent monitoring results recorded in accordance with condition 7;
 - (c) Copies of laboratory reports for blended effluent monitoring results recorded in accordance with condition 7;
 - (d) A summary of the environmental performance of each item of infrastructure or equipment as installed, which at a minimum includes:
 - (i) A comparison of the blended effluent, monitoring results against discharge limits specified in condition 15.
 - (ii) Assessment of the irrigation sprayfield performance against operational requirements of condition 5.
 - (e) A review of the works approval holder's performance and compliance against the conditions of the works approval; and
 - (f) Where they have not been met, measures proposed to meet the manufacturers' design specifications and the conditions of this works approval, together with the timeframes for implementing the proposed measures.

Time limited operations phase

Commencement and duration

- 11.** The works approval holder may only commence time limited operations for an item of infrastructure identified in condition 13 where the Environmental Commissioning Report for that item of infrastructure as required by condition 9 has been submitted by the works approval holder.
- 12.** The works approval holder may conduct time limited operations for an item of infrastructure specified in condition 13 :
- (a) For a period not exceeding 180 calendar days from the day the works approval holder meets the requirements of condition 11 for that item of infrastructure; and
 - (b) Until such time as a licence for that item of infrastructure is granted in accordance with Part V of the *Environmental Protection Act 1986*, if one is granted before the end of the period specified in condition 12(a).

Time limited operations requirements and emission limits

- 13.** During time limited operations, the works approval holder must ensure that the premises infrastructure and equipment listed in and located at the corresponding infrastructure locations maintained and operated in accordance with the corresponding operational requirements set out in Table 5.

Table 5: Infrastructure and equipment requirements during time limited operations

Site infrastructure and equipment	Operational requirements	Infrastructure locations
Irrigation sprayfield	a) Not more than 108 m ³ per day of blended effluent to be applied to the designated irrigation sprayfield area b) Irrigation via low drift fan-spray nozzles spaced for even distribution c) Irrigation to be managed to prevent ponding and pooling d) No blended effluent is permitted to runoff or discharge beyond the irrigation sprayfield	As shown in Schedule 1, Figure 2: Premises layout
WWTP and pipeline	Volumetric flow metres are maintained on the reverse osmosis brine holding tank outlet, WWTP inlet and outlet to the irrigation sprayfield Sludge is contained within sealed sludge tanks prior to removal by a licensed waste carrier for disposal to a licensed disposal facility Screenings are contained within a sealed bin prior to removal for disposal to a licensed disposal facility Spills of wastewater, reverse osmosis brine or chemicals outside of a vessel/container to be cleaned up immediately	As shown in Schedule 1, Figure 2: Premises layout
Reverse osmosis brine pipeline	a) Not more than 30 m ³ /day of reverse osmosis brine supplied to the WWTP	As shown in Schedule 1, Figure 2: Premises layout
Chemical storage	b) All chemical to be stored separately within an above ground vessel/s that is contained within bunds of a capacity of 110% of the total vessel contents	As shown in Schedule 1, Figure 2: Premises layout

- 14.** During time limited operation, the works approval holder must ensure that the emission specified in Table 6, is discharged only from the corresponding discharge points and only at the corresponding discharge point location.

Table 6: Authorised discharge points during time limited operations

Emission	Discharge point	Discharge point location
Blended effluent	Sprinklers within the irrigation sprayfield	Irrigation sprayfield as shown in Schedule 1, Figure 2: Premises layout

Monitoring during time limited operations

15. During time limited operations, the works approval holder must ensure that the emissions from the discharge point listed in Table 7 does not exceed the corresponding limit(s) when monitored in accordance with condition 16.

Table 7: Emission and discharge limits during time limited operations

Discharge point	Parameter	Concentration limit
Irrigation sprayfield	BOD ₅	<20mg/l
	Total suspended solids	<30 mg/l
	Total nitrogen	<30 mg/l
	Total phosphorus	<12 mg/l
	<i>Escherichia coli</i>	1,000 cfu/100 ml
	Total dissolved solids	2000 mg/l
	Residual chlorine	2.0 mg/l
	pH	6.5 – 8.5

16. The works approval holder must monitor emissions during time limited operations in accordance with Table 8.

Table 8: Emissions and discharge monitoring during time limited operations

Discharge point	Monitoring location	Parameter	Frequency	Averaging period	Unit
Irrigation sprayfield	WWTP outlet	<i>E. coli</i>	Monthly	Spot sample	cfu/100 ml
		Thermotolerant coliforms			
		BOD ₅			
		Total suspended solids			mg/l
		Total nitrogen			
		Total phosphorus			

Discharge point	Monitoring location	Parameter	Frequency	Averaging period	Unit
		Total dissolved solids			
		Residual chlorine ¹			
		pH ¹			
		Cumulative flow volume discharged to the irrigation sprayfield ¹	Continuous	N/A	m ³
	Reverse osmosis brine pipeline outlet	Cumulative flow volume supplied to the WWTP			

Note 1: In-field non-NATA accredited analysis is permitted

17. For the monitoring activity required by condition 16, the works approval holder must:

- (a) Record the results;
- (b) Handle and preserve all water samples during the monitoring of the WWTP in accordance with Australian Standard 5667.1:1998 *Water Quality – Sampling*; and
- (c) Have analysis conducted by a laboratory with current National Association of Testing (NATA) accreditation for the parameters specified.

Compliance reporting

18. The works approval holder must submit to the CEO a report on the time limited operations within 30 calendar days of the completion date of time limited operations or 30 calendar days before the expiration date of the works approval, whichever is the sooner.

19. The works approval holder must ensure that the report required by condition 18 includes the following:

- (a) A summary of the time limited operation, including date(s) for commencement of time limited operation, timeframes and amount of wastewater processed
- (b) A summary of monitoring parameter results obtained during the time limited operations under condition 16;
- (c) Copies of laboratory reports for blended effluent monitoring results recorded in accordance with condition 16;
- (d) A summary of the environmental performance of each item of infrastructure or equipment as installed, which at minimum includes:
 - (i) A comparison of the blended effluent monitoring results against discharge limits specified in condition 15;
 - (ii) Assessment of the irrigation sprayfield performance against operational requirements in condition 13.

- (e) A review of performance and compliance against the conditions of the works approval and the Environmental Commissioning Report; and
- (f) Where the specifications and the conditions of the conditions of the works approval have not been met, what measures will the works approval holder take to meet them, and what timeframes will be required to implement those measures.

Records and reporting (general)

20. The works approval holder must record the following information in relation to complaints received by the works approval holder (whether received directly from a complainant or forwarded to them by the Department or another party) about any alleged emissions from the premises:

- (a) the name and contact details of the complainant, (if provided);
- (b) the time and date of the complaint;
- (c) the complete details of the complaint and any other concerns or other issues raised; and
- (d) the complete details and dates of any action taken by the works approval holder to investigate or respond to any complaint.

21. The works approval holder must maintain accurate and auditable books including the following records, information, reports, and data required by this works approval:

- (a) the works conducted in accordance with condition 1;
- (b) any maintenance of infrastructure that is performed in the course of complying with condition 5 and 13;
- (c) monitoring programmes undertaken in accordance with condition(s) 7 and 16 ; and
- (d) complaints received under condition 20.

22. The books specified under condition 21 must:

- (a) be legible;
- (b) if amended, be amended in such a way that the original version(s) and any subsequent amendments remain legible and are capable of retrieval;
- (c) be retained by the works approval holder for the duration of the works approval; and
- (d) be available to be produced to an inspector or the CEO as required.

Definitions

In this works approval, the terms in Table 9 have the meanings defined.

Table 9: Definitions

Term	Definition
AS 1940-2004	means the Australian Standard® <i>The storage and handling of flammable and combustible liquids</i>
AS 3780-2008	means the Australian Standard® <i>The storage and handling of corrosive substances</i>
AS/NZS 3833-2007	Australian/New Zealand Standard™ <i>The storage and handling of mixed classes of dangerous goods, in packages and intermediate bulk containers</i>
AS/NZS 5667.1-1998	means the Australian Standard/New Zealand Standard 566.1-1998 <i>Water quality – Sampling – Guidance on the design of sampling program, sample techniques and the preservation and handling of samples.</i>
Blended effluent	means treated wastewater from the wastewater treatment plant mixed with reverse osmosis brine reject (reject water)
books	has the same meaning given to that term under the EP Act.
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 Joondalup DC WA 6919 info@dwer.wa.gov.au
cfu	means colony forming units
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> and designated as responsible for the administration of Part V Division 3 of the EP Act.
discharge	has the same meaning given to that term under the EP Act.
<i>E. coli</i>	<i>Escheria coli</i>
emission	has the same meaning given to that term under the EP Act.

Term	Definition
environmental commissioning	means the sequence of activities to be undertaken to test equipment integrity and operation, or to determine the environmental performance, of equipment and infrastructure to establish or test a steady state operation and confirm design specifications
environmental commissioning report	Means a report on any commissioning activities that have taken place and a demonstration that they have concluded, with a focus on emissions and discharges, waste containment, and other environmental factors.
Environmental Compliance Report	means a report to satisfy the CEO that the conditioned infrastructure and/or equipment has been constructed and/or installed in accordance with the works approval.
EP Act	<i>Environmental Protection Act 1986 (WA).</i>
EP Regulations	<i>Environmental Protection Regulations 1987 (WA).</i>
ha	hectare
kl	kilolitre
m ³	cubic metres
mg/l	milligrams per litre
ml	milliliter
NATA	National Association of Testing Authorities
NATA accreditation	Means in relation to the analysis of a sample that the laboratory is NATA accredited for the specified analysis at the time of the analysis
premises	the premises to which this licence applies, as specified at the front of this licence and as shown on the premises map (Figure 1) in Schedule 1 to this works approval.
prescribed premises	has the same meaning given to that term under the EP Act.
spot sample	means a discrete sample representative at the time and place at which the sample is taken
time limited operations	refers to the operation of the infrastructure and equipment identified under this works approval that is authorised for that purpose, subject to the relevant conditions.
waste	has the same meaning given to that term under the EP Act.

Term	Definition
works approval	refers to this document, which evidences the grant of the works approval by the CEO under section 54 of the EP Act, subject to the conditions.
works approval holder	refers to the occupier of the premises being the person to whom this works approval has been granted, as specified at the front of this works approval.
WWTP	Wastewater treatment plant

END OF CONDITIONS

Schedule 1: Maps

Premises map

The boundary of the prescribed premises is shown in the map below (**Error! Reference source not found.**).



Figure 1: Map of the boundary of the prescribed premises (pink)

Environmental Protection Act 1986
Works approval W6688/2022/1
File number: DER2022/000117

Date of issue: 13/09/2022

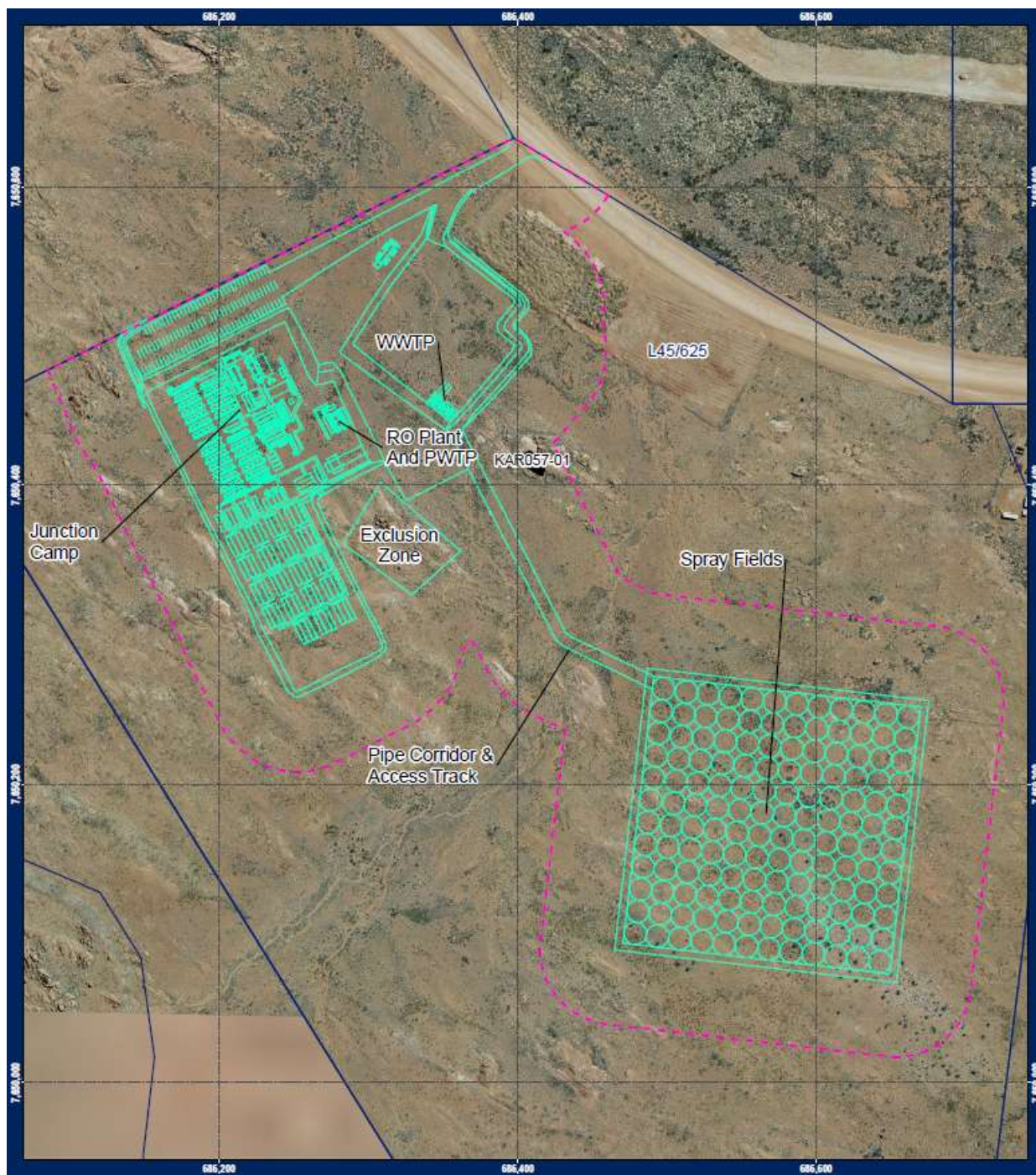


Figure 2: Premises layout

Schedule 2: Premises boundary

The premises boundary is defined by the coordinates in Table 10.

Table 10: Premises boundary coordinates

FID	EASTING	NORTHING	FID	EASTING	NORTHING	FID	EASTING	NORTHING	FID	EASTING	NORTHING
0	662621	7747098	28	662100	7745759	56	662298	7745430	84	662920	7744836
1	662621	7747098	29	662119	7745700	57	662299	7745429	85	662920	7744836
2	662455	7746794	30	662138	7745654	58	662299	7745429	86	662921	7744835
3	662463	7746784	31	662143	7745643	59	662300	7745428	87	662921	7744835
4	662466	7746780	32	662172	7745588	60	662301	7745427	88	662922	7744835
5	662554	7746669	33	662206	7745536	61	662909	7744846	89	662922	7744834
6	662558	7746664	34	662241	7745490	62	662910	7744846	90	662922	7744834
7	662586	7746629	35	662244	7745487	63	662910	7744845	91	662923	7744833
8	662538	7746614	36	662286	7745442	64	662911	7744845	92	662923	7744833
9	662480	7746590	37	662287	7745441	65	662912	7744844	93	662924	7744832
10	662426	7746561	38	662288	7745440	66	662912	7744844	94	662924	7744832
11	662373	7746527	39	662289	7745439	67	662912	7744843	95	662925	7744832
12	662324	7746489	40	662290	7745438	68	662913	7744843	96	662925	7744831
13	662279	7746447	41	662290	7745438	69	662913	7744842	97	662925	7744831
14	662237	7746401	42	662291	7745437	70	662914	7744842	98	662926	7744830
15	662200	7746351	43	662291	7745437	71	662914	7744842	99	662927	7744830
16	662167	7746299	44	662292	7745436	72	662914	7744841	100	662927	7744829
17	662139	7746244	45	662292	7745436	73	662915	7744841	101	662927	7744829
18	662122	7746203	46	662293	7745435	74	662915	7744841	102	662928	7744829
19	662115	7746186	47	662293	7745435	75	662915	7744840	103	662928	7744828
20	662097	7746127	48	662294	7745434	76	662916	7744840	104	662929	7744828

FID	EASTING	NORTHING	FID	EASTING	NORTHING	FID	EASTING	NORTHING	FID	EASTING	NORTHING
21	662084	7746066	49	662294	7745434	77	662916	7744839	105	662929	7744827
22	662076	7746005	50	662295	7745433	78	662917	7744839	106	662929	7744827
23	662075	7745977	51	662295	7745433	79	662918	7744838	107	662930	7744827
24	662074	7745943	52	662296	7745432	80	662918	7744838	108	662930	7744826
25	662077	7745881	53	662296	7745432	81	662918	7744838	109	662931	7744826
26	662086	7745819	54	662297	7745431	82	662919	7744837	110	662931	7744825
27	662086	7745819	55	662297	7745431	83	662919	7744837	111	662931	7744825
112	662932	7744825	140	662945	7744812	168	663045	7742971	196	665900	7731587
113	662932	7744824	141	662946	7744811	169	663041	7742935	197	665895	7731495
114	662933	7744824	142	662946	7744810	170	663013	7742674	198	665916	7731489
115	662933	7744823	143	662947	7744810	171	663053	7742510	199	665972	7731130
116	662934	7744823	144	662947	7744810	172	663189	7742230	200	665874	7729926
117	662934	7744822	145	662959	7744798	173	663189	7742229	201	665611	7727126
118	662935	7744822	146	662976	7744780	174	663191	7742226	202	665588	7727090
119	662936	7744821	147	663002	7744749	175	663195	7742218	203	665345	7723602
120	662936	7744821	148	663027	7744718	176	663295	7742047	204	665311	7723257
121	662936	7744820	149	663028	7744717	177	663549	7741607	205	665209	7721636
122	662937	7744820	150	663051	7744685	178	663986	7740717	206	665160	7720938
123	662938	7744819	151	663074	7744651	179	664153	7740353	207	665364	7717003
124	662938	7744819	152	663095	7744617	180	664254	7740137	208	665380	7716883
125	662938	7744818	153	663114	7744581	181	664548	7739378	209	665397	7716570
126	662939	7744818	154	663132	7744545	182	664549	7739374	210	665683	7714719
127	662939	7744817	155	663149	7744508	183	665677	7735662	211	665825	7713703
128	662940	7744817	156	663164	7744471	184	665678	7735660	212	665994	7712774
129	662941	7744816	157	663177	7744432	185	665679	7735658	213	665997	7712760
130	662941	7744816	158	663188	7744394	186	665833	7734915	214	666086	7712270

FID	EASTING	NORTHING	FID	EASTING	NORTHING	FID	EASTING	NORTHING	FID	EASTING	NORTHING
131	662942	7744815	159	663198	7744355	187	665838	7734825	215	666093	7712234
132	662942	7744815	160	663207	7744315	188	665827	7734256	216	666095	7712222
133	662942	7744814	161	663211	7744287	189	665827	7734251	217	666412	7711825
134	662943	7744814	162	663213	7744275	190	665823	7734003	218	667206	7708387
135	662943	7744814	163	663218	7744235	191	665823	7734003	219	667286	7708038
136	662943	7744813	164	663236	7744194	192	665823	7734003	220	667202	7707061
137	662944	7744813	165	663436	7743733	193	665888	7732138	221	667422	7706361
138	662944	7744813	166	663259	7743396	194	665888	7732126	222	667434	7706314
139	662945	7744812	167	663075	7743030	195	665905	7731657	223	667496	7706125
224	667725	7705398	252	673348	7692586	280	675184	7683302	308	676148	7680213
225	667756	7705297	253	673351	7692553	281	675247	7683103	309	676260	7679365
226	667757	7705296	254	673353	7692531	282	675248	7683098	310	676479	7678630
227	667761	7705249	255	673355	7692515	283	675249	7683094	311	677085	7676848
228	667736	7705187	256	673356	7692507	284	675249	7683090	312	677217	7676750
229	667777	7705095	257	673443	7691546	285	675259	7682821	313	677502	7676056
230	667809	7704770	258	673776	7689696	286	675308	7682538	314	677976	7676109
231	668701	7702761	259	673781	7689669	287	675384	7682316	315	678255	7674431
232	669921	7701761	260	673793	7689602	288	675473	7682139	316	677671	7674350
233	670231	7701599	261	673939	7688797	289	675474	7682135	317	677903	7672763
234	670566	7701398	262	674112	7687838	290	675476	7682131	318	677918	7672458
235	670613	7701369	263	674143	7687751	291	675477	7682126	319	677787	7671712
236	670944	7701170	264	674144	7687743	292	675562	7681687	320	677772	7671455
237	670953	7701164	265	674437	7686746	293	675775	7681005	321	677646	7668575
238	671788	7700662	266	674449	7686716	294	675902	7680930	322	677651	7668559
239	673493	7699605	267	674462	7686651	295	675907	7680927	323	677649	7668516
240	673498	7699602	268	674499	7686361	296	675911	7680923	324	677696	7668413

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242	673506	7699594	270	674588	7685302	298	675918	7680914	326	678057	7667623
243	673509	7699589	271	674582	7685292	299	675921	7680909	327	678057	7667622
244	673851	7699046	272	674591	7685263	300	675923	7680904	328	678082	7667567
245	674284	7698309	273	674606	7685055	301	675925	7680899	329	678170	7667455
246	674169	7697548	274	674669	7684901	302	675926	7680893	330	678293	7667298
247	674029	7696814	275	674689	7684809	303	675939	7680795	331	678549	7666971
248	673584	7694920	276	674728	7684687	304	675961	7680631	332	678709	7666768
249	673294	7693358	277	674773	7684560	305	676144	7680227	333	678732	7666738
250	673318	7693092	278	674935	7684094	306	676146	7680222	334	678753	7666711
251	673308	7693038	279	674993	7683929	307	676147	7680218	335	678906	7666516
336	679521	7665455	364	683378	7656579	392	687304	7650684	420	695063	7649864
337	679532	7665435	365	683438	7656478	393	687642	7650629	421	695436	7649776
338	679537	7665427	366	683607	7656267	394	689740	7650419	422	695833	7649762
339	679545	7665414	367	683662	7656168	395	689746	7650418	423	695839	7649762
340	679761	7665039	368	683718	7656119	396	689752	7650416	424	695844	7649761
341	679939	7664733	369	685177	7654133	397	689757	7650414	425	696273	7649656
342	680144	7664378	370	685180	7654128	398	689762	7650411	426	696350	7649673
343	680181	7664316	371	685181	7654125	399	689767	7650408	427	696352	7649673
344	680334	7664050	372	685451	7653562	400	689802	7650379	428	696355	7649674
345	680769	7663299	373	685541	7653528	401	689813	7650327	429	696974	7649746
346	680781	7663279	374	685546	7653525	402	690067	7650371	430	697456	7649927
347	681487	7662060	375	685551	7653522	403	690070	7650371	431	697461	7649928
348	681493	7662049	376	685556	7653519	404	690146	7650384	432	697466	7649929
349	681658	7661765	377	685560	7653515	405	690149	7650385	433	697470	7649930
350	681708	7661678	378	685618	7653453	406	690246	7650402	434	697561	7649936

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352	681961	7661241	380	685624	7653445	408	690955	7650532	436	697573	7649935
353	682365	7659908	381	685810	7653148	409	690960	7650533	437	697985	7649861
354	682514	7659413	382	685811	7653146	410	690965	7650533	438	698469	7649854
355	682523	7659384	383	685817	7653132	411	690970	7650533	439	698472	7649854
356	683012	7657769	384	685817	7653130	412	692017	7650484	440	698475	7649854
357	683162	7657274	385	685960	7652272	413	692018	7650484	441	698522	7649847
358	683193	7657170	386	686500	7650804	414	692020	7650484	442	698526	7649846
359	683214	7657102	387	686535	7650769	415	692176	7650466	443	698530	7649845
360	683297	7656825	388	686589	7650735	416	692467	7650434	444	698535	7649844
361	683297	7656825	389	686944	7650699	417	692471	7650433	445	698581	7649824
362	683311	7656779	390	687298	7650685	418	693936	7650147	446	698585	7649822
363	683337	7656740	391	687299	7650685	419	693938	7650147	447	698590	7649819
448	698594	7649816	476	705919	7647800	504	707837	7647173	532	709313	7647243
449	698597	7649813	477	705924	7647802	505	707840	7647176	533	709319	7647244
450	698627	7649782	478	705929	7647803	506	707844	7647179	534	709324	7647245
451	698630	7649778	479	706785	7647946	507	707848	7647181	535	709635	7647279
452	698632	7649774	480	706791	7647947	508	707901	7647212	536	709700	7647324
453	698635	7649770	481	706797	7647947	509	707906	7647214	537	709631	7647178
454	698813	7649429	482	706804	7647946	510	707912	7647216	538	709350	7647147
455	698863	7649379	483	706810	7647944	511	707918	7647218	539	709321	7647123
456	698983	7649297	484	706816	7647942	512	707924	7647218	540	709321	7647123
457	699551	7649105	485	706821	7647939	513	707931	7647218	541	709219	7647040
458	699555	7649103	486	707002	7647817	514	707937	7647217	542	709215	7647037
459	699559	7649101	487	707190	7647701	515	707943	7647215	543	709210	7647035
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462	700154	7648580	490	707202	7647691	518	708251	7647004	546	708599	7646876
463	701037	7648045	491	707205	7647686	519	708417	7647050	547	708593	7646875
464	701040	7648042	492	707208	7647682	520	708423	7647051	548	708587	7646875
465	701044	7648039	493	707210	7647677	521	708429	7647052	549	708581	7646875
466	701785	7647379	494	707273	7647519	522	708435	7647051	550	708576	7646876
467	701877	7647349	495	707732	7647173	523	708441	7647050	551	708570	7646878
468	702732	7647125	496	707735	7647170	524	708446	7647049	552	708565	7646880
469	702847	7647102	497	707739	7647166	525	708452	7647047	553	708425	7646948
470	703727	7647097	498	707742	7647163	526	708592	7646978	554	708255	7646902
471	704137	7647259	499	707771	7647123	527	709165	7647125	555	708249	7646900
472	704140	7647260	500	707772	7647123	528	709257	7647200	556	708243	7646900
473	704143	7647261	501	707780	7647121	529	709298	7647234	557	708237	7646900
474	705641	7647650	502	707782	7647121	530	709302	7647237	558	708231	7646901
475	705914	7647797	503	707791	7647125	531	709308	7647240	559	708225	7646903
560	708219	7646905	588	707194	7647455	616	701734	7647292	644	697004	7649650
561	708214	7646909	589	707191	7647459	617	701730	7647294	645	696998	7649649
562	707923	7647109	590	707188	7647464	618	701726	7647298	646	696992	7649648
563	707904	7647098	591	707185	7647469	619	700981	7647962	647	696369	7649575
564	707857	7647049	592	707124	7647625	620	700099	7648496	648	696283	7649556
565	707854	7647046	593	706949	7647732	621	700095	7648499	649	696277	7649555
566	707850	7647043	594	706949	7647733	622	700091	7648502	650	696272	7649555
567	707846	7647040	595	706948	7647733	623	699509	7649013	651	696266	7649555
568	707842	7647038	596	706782	7647844	624	698944	7649205	652	696260	7649556
569	707813	7647025	597	705954	7647706	625	698940	7649206	653	695825	7649663
570	707808	7647023	598	705683	7647559	626	698936	7649208	654	695428	7649677

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572	707797	7647021	600	705672	7647555	628	698803	7649299	656	695418	7649678
573	707792	7647021	601	704171	7647165	629	698799	7649302	657	695039	7649766
574	707773	7647021	602	703755	7647000	630	698796	7649305	658	695039	7649767
575	707767	7647021	603	703750	7646999	631	698737	7649363	659	693915	7650050
576	707761	7647022	604	703745	7646998	632	698733	7649367	660	692454	7650335
577	707740	7647027	605	703741	7646997	633	698730	7649371	661	692165	7650367
578	707735	7647029	606	703736	7646997	634	698728	7649375	662	692010	7650384
579	707730	7647031	607	702842	7647002	635	698549	7649718	663	690972	7650433
580	707726	7647034	608	702839	7647002	636	698532	7649736	664	690442	7650304
581	707710	7647044	609	702832	7647003	637	698502	7649749	665	690436	7650303
582	707705	7647047	610	702711	7647028	638	698465	7649754	666	690431	7650303
583	707700	7647051	611	702708	7647028	639	697980	7649761	667	690245	7650302
584	707696	7647056	612	701850	7647253	640	697977	7649761	668	689814	7650259
585	707666	7647097	613	701847	7647254	641	697972	7649762	669	689809	7650258
586	707202	7647447	614	701744	7647287	642	697561	7649836	670	689803	7650259
587	707198	7647451	615	701739	7647289	643	697484	7649831	671	689798	7650260
672	689792	7650261	700	685542	7653388	728	677972	7667570	756	677200	7675871
673	689787	7650264	701	685495	7653438	729	677713	7668019	757	677173	7676278
674	689782	7650266	702	685397	7653475	730	677711	7668024	758	676656	7677798
675	689778	7650270	703	685392	7653477	731	677709	7668029	759	676656	7677800
676	689715	7650321	704	685388	7653480	732	677548	7668554	760	676653	7677808
677	687630	7650530	705	685383	7653483	733	677546	7668560	761	676148	7679448
678	687627	7650530	706	685379	7653487	734	677546	7668565	762	676050	7680192
679	687290	7650585	707	685376	7653491	735	677545	7668571	763	675867	7680596
680	686939	7650599	708	685373	7653496	736	677672	7671454	764	675865	7680601

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683	686567	7650637	711	683319	7656493	739	677303	7673534	767	675840	7680782
684	686561	7650637	712	683316	7656498	740	677299	7673743	768	675830	7680856
685	686555	7650639	713	683314	7656503	741	677254	7674130	769	675708	7680929
686	686550	7650641	714	683312	7656508	742	677129	7674655	770	675702	7680933
687	686545	7650644	715	682892	7657887	743	677128	7674659	771	675698	7680937
688	686476	7650688	716	681882	7661207	744	677114	7674747	772	675694	7680941
689	686471	7650692	717	679537	7665254	745	677113	7674753	773	675690	7680946
690	686467	7650695	718	679537	7665255	746	677113	7674758	774	675688	7680952
691	686421	7650742	719	679534	7665261	747	677114	7674763	775	675685	7680957
692	686418	7650746	720	679508	7665327	748	677133	7674891	776	675588	7681267
693	686415	7650750	721	679436	7665450	749	677133	7674892	777	675461	7681681
694	686412	7650755	722	679392	7665507	750	677145	7674965	778	675380	7682101
695	686410	7650760	723	679391	7665508	751	677147	7674970	779	675293	7682274
696	685864	7652242	724	679388	7665513	752	677148	7674975	780	675292	7682278
697	685863	7652247	725	678834	7666469	753	677151	7674980	781	675291	7682280
698	685862	7652251	726	677976	7667564	754	677153	7674985	782	675212	7682509
699	685720	7653103	727	677975	7667565	755	677249	7675125	783	675211	7682513
784	675210	7682517	812	673362	7691503	840	667101	7707055	868	665738	7734002
785	675160	7682808	813	673361	7691505	841	667101	7707060	869	665753	7734812
786	675160	7682810	814	673194	7693355	842	667186	7708042	870	665581	7735635
787	675159	7682814	815	673193	7693360	843	666334	7711788	871	665080	7737285
788	675149	7683079	816	673194	7693364	844	666023	7712177	872	664639	7738768
789	675088	7683272	817	673194	7693369	845	666019	7712183	873	664640	7738769
790	674648	7684720	818	673485	7694939	846	666016	7712188	874	664641	7738772

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792	674605	7684791	820	674013	7697182	848	666013	7712200	876	664641	7738777
793	674603	7684797	821	674186	7698327	849	665741	7713688	877	664564	7739026
794	674511	7685025	822	673431	7699526	850	665741	7713689	878	664504	7739219
795	674509	7685030	823	670454	7701370	851	665297	7716557	879	664487	7739275
796	674508	7685035	824	669870	7701675	852	665297	7716558	880	664486	7739277
797	674507	7685040	825	669866	7701677	853	665297	7716562	881	664484	7739279
798	674489	7685284	826	669862	7701681	854	665068	7720993	882	664482	7739281
799	674397	7686356	827	668629	7702691	855	665068	7720996	883	664479	7739283
800	674397	7686361	828	668624	7702695	856	665068	7720999	884	664452	7739355
801	674397	7686366	829	668621	7702699	857	665212	7723264	885	664448	7739364
802	674398	7686371	830	668617	7702704	858	665212	7723266	886	664433	7739403
803	674399	7686376	831	668615	7702709	859	665306	7724223	887	664433	7739403
804	674426	7686459	832	667714	7704736	860	665508	7727096	888	664421	7739431
805	674406	7686551	833	667712	7704741	861	665508	7727097	889	664409	7739459
806	674343	7686711	834	667711	7704747	862	665881	7731064	890	664112	7740228
807	674342	7686715	835	667710	7704752	863	665815	7731487	891	663473	7741592
808	674047	7687718	836	667658	7705280	864	665815	7731488	892	663308	7741863
809	674047	7687719	837	667103	7707040	865	665815	7731493	893	663307	7741865
810	674046	7687723	838	667102	7707045	866	665738	7734000	894	663226	7742008
811	673362	7691500	839	667101	7707050	867	665738	7734001	895	663178	7741984
896	663180	7741976	924	662686	7742993	952	663105	7744306	980	661946	7745838
897	663194	7741949	925	662689	7743001	953	663095	7744339	981	661945	7745845
898	663205	7741936	926	662702	7743034	954	663086	7744363	982	661942	7745888
899	663237	7741881	927	662720	7743073	955	663082	7744389	983	661941	7745930
900	662960	7742076	928	662731	7743092	956	663077	7744389	984	661943	7745979

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903	662862	7742173	931	662900	7743386	959	663024	7744498	987	661965	7746106
904	662851	7742195	932	662917	7743422	960	663006	7744527	988	661977	7746147
905	662838	7742222	933	663046	7743729	961	662990	7744550	989	661991	7746187
906	662830	7742239	934	663061	7743762	962	662986	7744556	990	662008	7746226
907	662814	7742271	935	663069	7743779	963	662966	7744584	991	662028	7746265
908	662775	7742345	936	663075	7743794	964	662944	7744611	992	662036	7746279
909	662713	7742465	937	663087	7743827	965	662917	7744641	993	662046	7746297
910	662704	7742485	938	663098	7743860	966	662857	7744518	994	662069	7746332
911	662688	7742525	939	663108	7743893	967	662321	7744967	995	662371	7746884
912	662675	7742567	940	663112	7743912	968	662041	7745237	996	662491	7747103
913	662664	7742609	941	663137	7743916	969	662193	7745364	997	662568	7747060
914	662656	7742652	942	663156	7743918	970	662123	7745443	998	662570	7747058
915	662654	7742663	943	663137	7744042	971	662082	7745495	999	662600	7747110
916	662650	7742695	944	663133	7744067	972	662057	7745530	1000	662621	7747098
917	662647	7742739	945	663133	7744100	973	662036	7745564			
918	662647	7742779	946	663132	7744135	974	662017	7745600			
919	662650	7742823	947	663130	7744169	975	661999	7745638			
920	662653	7742849	948	663126	7744204	976	661984	7745678			
921	662655	7742866	949	663120	7744238	977	661970	7745719			
922	662663	7742909	950	663117	7744254	978	661959	7745760			
923	662673	7742952	951	663113	7744272	979	661951	7745802			