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ATTACHMENT B.3 PLANNING AUTHORITY

There are no existing planning permissions pertaining to the site.



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ATTACHMENT B.4 SANITARY AUTHORITY

Dublin City Council will apply to the Drainage Division section of Dublin City Council for a discharge licence under Section 16 of the Water Pollution Acts 1977-1990, in order to discharge trade effluent to the local authority sewer. This application is contingent of the granting of a Waste Licence for the facility by the EPA.

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ATTACHMENT B.6 NOTICES AND ADVERTISEMENTS

Please refer to Appendix 2 for a copy of the Site Notice and the Newspaper Advertisement



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ATTACHMENT B.7 TYPE OF WASTE ACTIVITY, TONNAGES & FEE

The relevant activities to which this application relates as specified in the Third and Fourth Schedule of the Waste Management Acts 1996 to 2003 are detailed below.

The **Principle Activity** to be carried out at the site is **Class 13, Fourth Schedule**. This is defined as:

"Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced."

The Civic Amenity Site will provide for the collection of recyclable materials such as glass, plastics, beverage cans and textiles. The facility will also cater for the collection of construction and demolition waste derived from households, household hazardous waste and other bulky wastes. The recyclable materials will be stored on site in sealable containers prior to being collected by permitted waste collection contractors and taken off site for recovery. Designated containers will also be provided to facilitate the collection of separate organic waste, i.e. green waste, hedge clippings, tree clippings, etc. Green waste will also be compacted on-site prior to being shipped off-site for recycling.

The development is also covered under the following Classes:

Third Schedule, Class 13- "Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced."

The operation of the facility will involve the temporary storage of residual domestic waste prior to its dispatch from the site to alternative waste disposal facilities. Waste from the street cleaning vehicles will also be temporarily stored on-site prior to removal off site for disposal.

Fourth Schedule, Class 3- "Recycling or reclamation of metals and metal compounds." Designated containers will be provided for the collection of bulky metals e.g. old bicycles, steel frames, copper piping, etc. A separate container for beverage cans will also be provided.

Fourth Schedule, Class 4- "Recycling or reclamation of other inorganic materials."

Designated containers will be provided for the collection of inorganic materials, such as construction and demolition waste derived from household renovations, conversions, etc.

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ATTACHMENT C.1 TECHNICAL COMPETENCE AND SITE MANAGEMENT

It is intended that the Civic Amenity Site will be operated by a private company and Dublin City Council will manage the regulatory aspects of the facility and will have the overall responsibility for the facility. The management organisational chart for Civic Amenity Facility at Labre Park is as follows.



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ATTACHMENT C.2 ENVIRONMENTAL MANAGEMENT SYSTEM

Contractor will operate site and it will be a contract condition to prepare and operate an EMS for the site.

The contract manager will report to the Project Manager for Civic Amenity Sites in the Waste Management Services section of Dublin City Council.

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ATTACHMENT C.3 HOURS OF OPERATION

The Civic Amenity site will be operational during the following hours:

Summer

- 7:00 a.m. 20:00 p.m. Monday-Friday
- 8:30 a.m. 17:00 p.m. Saturday

Winter

- 7:00 a.m. 17:00 p.m. Monday-Friday
- 8:30 a.m. 16:00 p.m. Saturday

The hours of waste acceptance/handling for the Civic Amenity Site will be:

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Summer

- 8:00 a.m. 19:30 p.m. Monday-Friday
- 9:30 a.m. 16:30 p.m. Saturday

Winter

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- 8:00 a.m. 16:30 p.m. Monday-Friday
- 9:30 a.m. 15:30 p.m. Saturday

It is envisaged that the hours for construction and development works at the facility will be the same as the hours of operation.

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ATTACHMENT D.1 INFRASTRUCTURE & OPERATION

The following sections should be read in conjunction with the drawings included in the EIS.

D.1.a Site security arrangements including gates and fencing

Refer to Section 3.5.2 in the EIS

D.1.b Design for site roads

Refer to Drawing No.24014-001 in the EIS for the layout of the site road network. Roads will consist of a mixture of asphalt and concrete hardstand. Road design and construction will be agreed and confirmed with the Agency prior to construction. Design of the hardstanding areas are dealt with in Section D.1.c.

D.1.c Design of hardstanding areas

All hardstanding areas will be designed and constructed in accordance with all relevant NRA and Irish standards and codes of best practice. Refer to Figure No.D.1, which details the construction for the concrete hardstand. ction purposes only, any other use.

D.1.d Plant

Refer to Section 3.5.1 in the EIS

D.1.e Wheel-wash

Not applicable

D.1.f Laboratory facilities Not applicable

D.1.g Design and location of fuel storage areas

Any oil or fuel on-site will be stored in proprietary bunded containers. There will be a designated area for the oil and fuel storage tanks in the street cleaning area. The bunded containers will have a volume of 110% of the capacity of the container, plus an allowance of 30mm for rainwater ingress. Fuel for vehicles will be stored in a mobile double-skinned tank.

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D.1.h Waste quarantine areas

In the event of waste not passing the acceptance criteria, the waste will be diverted to the waste quarantine container, as shown in Drawing No. 24014-001e. Waste will be held in the designated container to allow appropriate arrangements to be made to have it removed from the site by waste handling contractors authorised to handle to waste concerned.

D.1.i Waste inspection areas

All waste will be inspected visually by the operations manager at the entrance gate. The operations manager will instruct where the waste is to be placed.

Traffic Control D.1.j

Refer to Sections 3.1.5 - 3.1.7 & Section 5.0 in the EIS.



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Figure D.1 Design detail of concrete hardstand

D.1.k Sewerage and surface water drainage infrastructure

Refer to Sections 3.5.10 - 3.5.12 and Drawing No. 24014-003B in the EIS. In addition to the information contained in the EIS, the following surface water drainage infrastructure is proposed for the Labre Park facility:

- A Class 1 Hydrocarbon Interceptor;
- A Silt Trap;
- A 'Hydro-Break' Flow Control Device; and
- A 'Storm Cell' Surface Water Attenuation Tank.

Drawing No.24014-003B in the EIS shows the location the surface water drainage infrastructure.

Area Drained	11,111m ²
Net Capacity	6,600Litre
Length	3,929mm
Diameter	1,500mm
Overall Height	2,750mm
Maximum Pipe	450mm.

As the site is $11052m^2$ in area, this size of interceptor is suitable for the site.

The surface water runoff from the site will be attenuated in an underground tank on the site. The tank will be sized to store $264m^3$ runoff, which is the runoff volume calculated for the site from a 1 in 30 year event.

In the case of a 1 in 100 year storm events flooding of the vehicle stopping lanes will occur in order to accommodate the additional function of adjacent sites. This is in accordance with SUDS Guidelines.

The surface water runoff from the site will be collected and stored in a sealed tank during heavy rainfall and then released through a flow control device which minimises the risk of flooding. The flow control device will control flow to a rate of 5 l/sec/hectare.

The attenuation tank will be manufactured from long-life polypropylene, fusion welded into a rigid, three dimensional hollow matrix. The actual dimensions of the tank will be 40 m (length) x 10m (wide) x 0.88m (depth). The capacity of the tank will be $352m^3$, allowing storage of surface water runoff from a 1 in 30 year storm event, which is calculated to be $328.2m^3$. The calculations for the sizing of the storage are shown below.

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Stormwater Runoff		Units
Allowable Runoff*	5	l/sec/hect
Site Area	1.1052	hectare
Maximum Allowable	· · ·	
Runoff Rate	5.526	l/sec
Maximum Allowable		
Runoff over 720 min.	238723.2	litres
1 in 30 Year Event		
Storm Duration	720	mins.
Rainfall Amount**	51.3	mm
Total Runoff Volume	566.968	m ³
	566967.6	litres
Attenuation required at		
Site (30 yr return period)	328244.4	litres

* SUDS Figures ** Met Eireann Data

In the event of a 1 in 100 year storm event, an additional $139m^3$ of runoff will have to be retained on site in order to maintain the maximum discharge rate of 5.526 l/sec from the site. This will be achieved by flooding of the stopping lanes. This area is $1285m^2$. In order to retain 139 m³ of runoff, the stopping lanes will be flooded to a depth of 0.108m. See Calculations below).

	- with any out	
1 in 100 Year Event	5 offor and	Units
Storm Duration	7200 ⁵ 10 ⁰	mins.
Rainfall Amount	64.8	mm
Total Runoff Volume	216.2	m ³
Minus 1 in 30 Year	in oft	
Event Runoff	For price 567.0	m ³
Additional Runoff	8-00 ·	
from 1 in 100 Year	S	
Event Cons	149.2	m ³
Stopping Lanes Area	1285.0	m ²
Flood Depth of		
Stopping Lanes	0.116	m

D.1.1 All other services

Other site services are shown on Drawing No. 24014-003 in the EIS.

D.1.m Plant sheds, garages and equipment compound Not applicable.

D.1.n Site accommodation

Refer to Drawing No. 24014-004 in EIS

D.1.0 A fire control system, including water supply Refer to Section 3.5.4 in EIS

D.1.p Civic amenity facilities

Refer to Section 3.0 in the EIS

D.1.q Any other waste recovery infrastructure

Two separate waste compactors will be provided for the compacting and storage of both street cleaning waste and green waste prior to removal off-site for treatment.

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D.1.r Composting infrastructure

Not applicable.

ATTACHMENT D.2 FACILITY OPERATION

In Attachment D 2 describe the plant, methods, processes and operations of the waste facility, as required by the Guidance Note.

Facility Operation

A list of all unit operations to be carried out together with a plan of the site indicating the location of all activities and identifying all buildings and facilities

Please refer to section 3.1 and 3.2 of the EIS

A flow diagram of the whole process along with a brief description detailing its management and maintenance plans

Please refer to Site Layout map 24014-001e as provided in EIS

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Proper and regular maintenance will be carried out on all mechanical equipment on site to ensure the equipment is in safe working order and does not pose a threat to the health and safety of either workers or members of the public.

Further details of any aspect of the facility operation that can cause emissions to the environment during normal operation and also in the event of a malfunction or interruption of services are given in Section E of the application



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ATTACHMENT E.1 EMISSIONS TO ATMOSPHERE

There are no defined emission points on this site, as on-site activities do not produce major emissions to the atmosphere. The only potential sources of emissions to the atmosphere include dust, odour and bio aerosol.

The potential for generation of dust from the Civic Amenity Facility is considered to be minimal. During construction, mitigation measures will control dust on the neighborhood, while during the operational phase, good general housekeeping will ensure that dust generated due to spillages is minimised.

There is a negligible potential for odour generation, as green waste material and road sweeping wastes will be stored in sealed compactors and will be regularly removed from the site.

The proposed Civic Amenity Facility will not cause any significant bioaerosol, H_2S or odour impact. Green waste and deposit waste will be removed off-site at regular intervals.

More details of the above are provided in Section 9 of the accompanying Environmental Impact Statement.



ATTACHMENT E.2 EMISSIONS TO SURFACEWATER

There are two surface water systems that are in close proximity to the proposed site: the Grand Canal and a tributary of the Camac River, the Galback Stream. The quality of the Grand Canal is generally considered to be good, however it can be concluded that the River Camac is seriously polluted in the vicinity of the proposed site (Section 13.0 of the EIS for more detail).

The proposed Civic Amenity facility will include a collection point and temporary storage area for recyclable wastes. It will consist of a concrete hardstand area of 11,053m² for non-hazardous recyclables including a bunded waste inspection and household hazardous waste area. The recyclable wastes will be stored in open top skips and residual waste will be compacted into enclosed skip containers with no surface water discharge. Surface run off from the hard stand area will be collected in collection gullies and passed through a grit trap and an interceptor before being discharged to foul sewer by a rising main.

If uncontrolled the proposed facility may have the potential to contaminate surface water in the Grand Canal and the Camac River by runoff from the hard stand area. The potential impacts would include silting and increased run off during rain storms, which would increase the flows in the Grand Canal and in the Camac River and contribute to the possibility of flooding.

The proposed mitigation measures include directing all surface run off to an oil interceptor and grit trap, before being discharged to the Galback Stream (Refer to Drawing No. 24014-003 in the EIS). The mitigation measures have been incorporated into the design of the facility and include:

- Concrete hardstand area;
- Collection gullies for runoff which are directed to foul sewer;
- Bunded area for hazardous recyclables;
- A hydrocarbon interceptor; $\sqrt[40]{5}$
- A grit (sediment) trap;
- Surface water attenuation tank, and
- Hydro-break flow control device.

All surface water run-off from the hardstand area will be directed to collection gullies and the surface water attenuation system (Refer to Drawing No.24014-003B). This will consist of a storm storage cell attenuation tank and a hydro-break flow control device. This system will regulate the flow of surface water into the Galback Stream to 5liters/second/hectare. Before being discharged into the stream the run-off will also pass through a silt trap and a hydrocarbon interceptor. The surface water runoff from the Street Cleaning Area will be collect separately and will be directed to the foul sewer network.

With the proposed mitigation measures in place there will be no likely significant effect on the flow regime of the Camac River.

ATTACHMENT E.3 EMISSIONS TO SEWER

Foul water drainage from the proposed site office will be discharged to the existing foul sewer system in the area. This will be domestic waste water from 5 to 8 staff. Surface water runoff from the street cleaning area will also be directed to the foul water sewer. The runoff from this area will be equivalent to a very light leachate, at most. This will not impact on the water environment.

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ATTACHMENT E.4 EMISSIONS TO GROUNDWATER

There will be no emissions to groundwater at the proposed facility



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ATTACHMENT E.5 NOISE EMISSIONS

Full details of noise emissions are provided in Section 6.0 of the EIS. During the construction phase, the potential for noise impacts are associated with site preparation and surfacing. During the operational phase, the main potential for noise impact is due to traffic movements, and noise generated within the facility when materials are deposited in the various recycling bins and areas.

The proposed site is located in a mixed residential and industrial/commercial area. The noise sensitive locations where greatest impact will be felt presently are the houses in Labre Park, which are between 40 and 50m north of the site boundary.

During the construction phase of the facility, the resulting noise levels will be comfortably within typical construction noise criteria, and minimal impact is anticipated. Taking account of EPA guideline limits and assessment procedures of BS 4142, an assessment/design criterion of 53 Db (A) L_{Aeq} is considered appropriate for the operational phase of the proposed development.

To ensure that noise impact is minimised during the operational phase a 3m high wall (noise barrier) will be constructed along the northern boundary of the site, this will be facilitated by the construction of a wall to the rear of the proposed new housing development at Labre Park. The calculated noise levels at the adjacent houses, and at the adjoining residential development lands are in the range 46 to 53 dB(A) L_{Aeq} . While this indicates that there may be a small increase in noise level the impact will be less than significant.

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ATTACHMENT E.6 ENVIRONMENTAL NUISANCES

Bird Control

It is envisaged that there will be no nuisance associated with birds at the Civic Amenity Facility, for the following reasons:

- There will be no external storage of putrescible waste, all residual waste storage will be in sealed compactors;
- There will be no long term storage of waste on the site; and,
- Any tipping of waste will be limited to the designated waste inspection area. The period for waste inspection/quarantine will be kept to a minimum and the area will be cleaned afterwards. Therefore, this area will not serve as an attraction for birds.

Dust Control

It is envisaged that there will be no nuisance associated with dust at the Civic Amenity Site for the following reasons:

- There will be no open storage of waste, all storage of waste will be in containers which can be covered when not in use
- There will be no long term storage of waste on the site;
- Any tipping of waste will be limited to the designated waste inspection area. The period for waste inspection/quarantine will be kept to a minimum and the area will be cleaned afterwards; and,
- All site areas will be inspected and cleaned regularly

Fire Control

Training of all site operatives and employees in fire prevention and control;

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Prominent posting of emergency response contact numbers (fire service, police, ambulance and other agencies);

The provision of on-site water supply;

The provision of fire fighting equipment in the site office and household hazardous waste storage area;

The provision of fire hydrants adjacent to the site office and waste collection areas;

Clear posting of a fire assembly point on-site; and,

There will be no long term storage of waste on-site.

Litter Control

It is envisaged that there will be no nuisance associated with litter at the Civic Amenity Facility for the following reasons:

- There will be no external storage of waste, all storage of waste will be in sealable containers;
- There will be no long term storage of waste on the site;



- Any tipping of waste will be onto the designated waste inspection area. If inspection tipping occurs, the area will be cleaned immediately after the inspection;
- All site areas will be inspected and cleaned regularly;
- During the operational phase the operators will ensure all vehicles depositing green or civic amenity waste adequately cover trailers and other open-back vehicles, to control potential littering impacts.
- All containers will be covered prior to leaving the site.

Traffic Control

Refer to Section 5.8.1 of the Environmental Impact Statement (EIS)

Vermin Control

It is envisaged that there will be no nuisance associated with vermin at the Civic Amenity Facility for the following reasons:

- There will be no long-term storage of putrescible waste on the site. The only putrescible waste will be contained in fully enclosed waste compactors
- Any tipping of waste will be onto a designated waste inspection area. If inspection tipping occurs, the area will be cleaned immediately after the inspection, and so will not serve as an attraction for vermin; and,
- All waste will be held in sealable containers.

However, if a vermin problem does occur on site, a vermin control system will immediately be put in place on-site which will be provided by a reputable vermin control company.

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Roads Cleansing

Although all loads entering and reaving the site will be in sealed covered containers, there may be some soiling of the roads and regular inspections will be made of the site roads and hardstand areas. Road cleaning procedures will be put in place whenever necessary and at a minimum of once per week.

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ATTACHMENT F.1 TREATMENT, ABATEMENT AND CONTROL SYSTEMS

Air (Odour and Bioaerosols)

Refer to Sections 9.7-9.12 and Appendix 9.1 of the Environmental Impact Statement (EIS)

Soil

Refer to Sections 12.5-12.9 of the EIS

Surface Water and Groundwater

Section 13.5 of the Environmental Impact Statement (EIS) deals fully with the avoidance, remedial and reductive measures associated with reducing emissions to surface water and groundwater.

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Noise

Refer to Sections 6.9-6.12 of the Environmental Impact Statement (EIS).

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ATTACHMENT F.2-F.9 MONITORING & SAMPLING POINTS

The following sections describe the proposed monitoring programmes to be established at the Labre Park Civic Amenity Facility. Specific elements of monitoring may also be required during the construction and aftercare phases at the site and these requirements are also addressed.

All environmental monitoring will be carried out under the conditions of the Waste Licence for the facility issued by the Agency. Emission Limit Values (ELV) will be set by the Agency for many of the parameters to be monitored. Exceeding these values will be judged by the Agency to be a non-compliance with the Waste Licence.

The monitoring programme outlined below has been developed on the basis of the results of the suite of monitoring carried out as part of the baseline studies for the preparation of this EIS. The primary aims of this programme are to comply with legislation and the requirements of the Agency and to monitor the quality of the environment in the vicinity of the Civic Amenity Facility and identify any adverse impacts from the proposed development.

As a condition of the Waste Licence, an Annual Environmental Report (AER) will be formulated that will collate and report all monitoring data each year. A comparative assessment will be made with data from previous years. This report will also be submitted to the Agency.

It should also be noted that the monitoring programme as outlined below may be changed by the conditions of the Waste Licence but it is envisaged that it will be largely similar to that outlined herein. **F2** Air- including Dust & Odour Dust monitoring using the Bergerhoff Gauges will be carried out during the construction phase

and on an annual basis thereafter, and reported to the Agency in the AER. If the level of dust is found to exceed $240 \text{ mg/m}^2/\text{day}$ in the vicinity of the site, further mitigation measures will be incorporated into the operation of the facility. Cos

The monitoring points and locations used in this survey are shown on Figure F1, and the corresponding National Grid References are tabulated below.

Dust Monitoring Locations	National Grid Reference
D1	309870, 232570
D2	310020, 232615

In addition to the monitoring using the Bergerhoff Gauges, the site and adjoining roads are to be inspected on a daily basis for evidence of excessive generation of airborne dust. This inspection will be carried out by the facility manager who is responsible for taking any remedial action, such as road cleansing.

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F3 Surface Water

Surface water will be monitored annually to observe any changes in water chemistry and hydrocarbons, and to ensure that the civic amenity site is not contributing to surface water contamination.

As with similar facilities that have been licensed elsewhere in the country biannual monitoring is advised. The water quality should be monitored at upstream and downstream locations on the Galback Stream (SW1 & SW2, as shown on Figure F1) and the corresponding National Grid References are tabulated below.

Surface Water Monitoring Locations	National Grid Reference
SW1	309865, 232590
SW2	310020, 232625

The need for additional monitoring locations may be recommended by the Agency. In addition the need for further monitoring locations will be determined on an annual basis.

It is intended that all surface water sampling will be carried out by trained personnel from Dublin City Council or by a suitable firm of consultants retained by the Council. All analyses, with the exception of on-site readings, will be carried out by an accredited laboratory. A visual inspection of all surface water streams on and adjacent to the site will also be carried out by site personnel on a weekly basis.

F4 Sewer Discharge

The effluent will be sampled at the onesite sewer manhole (FS 01), the location of which is represented by SE1 in Figure F1. The National Grid Reference for the sewer discharge monitoring point is 309945,232580. The effluent discharge will be sampled on a quarterly basis.

F5 Groundwater

As there will be no long-term storage of waste on the site and because all facility operations will be carried out on a hardstand area, as previously described, there will be no direct interaction with groundwater and consequently no impact on groundwater. However, since there are two existing boreholes on-site, it is proposed to monitor the groundwater on an annual basis. The ground water quality monitoring locations should are GW1 & GW2, as shown on Figure F1, and the corresponding National Grid References are tabulated below.

Ground Water Monitoring Locations	National Grid Reference
GW1	310000, 232550
GW2	310010, 232600



F6 Noise

As with similarly licensed facilities elsewhere in the country annual monitoring is advised. This should be monitored at site boundary and noise sensitive receptor locations, and should be carried out under appropriate climatic conditions as set out in ISO1996.

The monitoring points and locations used in this survey are as shown as N1 & N2 on Figure F1, and the corresponding National Grid References are tabulated below.

Noise Monitoring Locations	National Grid Reference
N1	309870, 232645
N2	310020, 232650

F7-F9 Meteorological Data, Leachate & Landfill Gas

These monitoring parameters are not applicable for the proposed development.

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