

APPLICATION FOR A MARINE LICENCE FOR MARINE WORKS

Marine Works include, but are not limited to, coast defences, beneficial uses of dredged materials, subsea cables, pontoons, jetties, land reclamation, grab samples and outfall pipes under the Marine and Coastal Access Act 2009

Please read the notes carefully before completing the form.

- The Marine Licensing Team (MLT) administers Part 4 of the Marine and Coastal Access Act 2009 on behalf of the Licensing Authority, the Welsh Ministers.
- The completed application form must be accompanied by a location plan and, where appropriate, descriptive drawing(s) and any supporting environmental assessments. One completed hard copy of the application and supporting documents will always be required. Additional copies are required for consultation purposes.
 - For application and supporting documents less than 10MB we can accept an additional copy via email.
 - For applications larger than 10MB **16** additional copies in CD/DVD format will be required
 - When applications and supporting documents are hard copy only **16** copies will be required.
- Please submit applications to the **Permit Receipt Centre** via the details at the top of this form
- Please submit marine licence applications, including this form and all supporting documents, **at least 4 months before the licence is required.**

Some projects may raise matters that require a significantly longer time for consideration.

These are most likely to be:

- Projects that fall **within** The Marine Works (Environmental Impact Assessment) Regulations 2007 – as amended requiring an Environmental Statement
- Large scale projects with substantial volumes of material being deposited or excavated
- Works requiring an Appropriate Assessment to be conducted under The Conservation of Habitats and Species Regulations 2017.
- Information should be provided about the anticipated **duration of the entire project** in respect of works below/seaward of Mean High Water Spring (MHWS). Where appropriate, planned phasing of the work for which consent is sought must be detailed. For projects lasting more than one calendar year, planned phasing details must be given for each 12 month period.

A licence fee is payable in respect of an application. Details of fees can be found on our web pages.

Please note applications will not be processed without the correct relevant fee or invoicing details.

- Payments can be made via Cheque, BACS or credit/debit card.
 - Cheques should be crossed and made payable to **Natural Resources Wales.**
 - For BACS payments ensure you provide the reference number (not remittance number)

- For credit/debit card payments please complete the CC1 form and submit with the application. The CC1 form can be found on our web pages

Further information on payment methods can be found on our web pages

- Please answer all questions. If any information is not available at the time of application please indicate in the relevant section, giving reasoning in a covering letter. Outstanding details must be submitted as soon as possible. Any delay in forwarding details is likely to result in delays in determining your application.

Your application may not be considered complete and therefore not processed until key information has been submitted. Your application may be returned if you fail to submit outstanding information within given timescales.

- Please note any licence may have conditions that must be discharged before works can commence. This will take additional time.
- If you have any queries with regards to completing this application please contact the MLT: marinelicensing@naturalresourceswales.gov.uk

How your application will be processed by the MLT:

- Submit all application to the **Permit Receipt Centre** via the details at the top of this form.
- Checked and acknowledged by the MLT within 21 days of receipt of application and payment
- If the application is complete and no further information is needed at this time, your application will be placed in a work queue to be assigned a permitting officer
- If the application is not complete, further information will be request and need to be provided before the application can be considered as complete
- Our **4 months** service level for determining non-EIA applications will begin from the date the **completed** application is received (*Please note some projects may take significantly longer than 4 months to determine due to their nature*)
- EIA projects may take significantly longer due to their scale and complexity. Therefore we encourage early engagement with the MLT
- Your application and supporting documents will be sent to for an initial consultation period of 28 days (*42 days for EIA projects*)
- For the majority of projects, a public notice must be advertised. Public consultation will be 28 days (*49 days for EIA projects*).
For EIA projects a second public notice will be required. The MLT will advise on how this should be done.
- Responses to consultation will be considered and additional information requested at this time, if necessary.
- A decision on your Marine Licence Application will be made

All information submitted may be referred to within a licence, therefore all works must be in accordance with this information, unless otherwise agreed with NRW acting on behalf of the Licensing Authority during the determination process.

It is the responsibility of the applicant to obtain any other consents/authorisations that may be required.

Application Form Structure

1. Project Description and Cost
2. Applicant Details
3. Details of Agent, Contractor, Vehicles and/or Vessels used to carry out works
4. Environmental Impact Assessment (EIA)
5. Licensable Period
6. Project Description
7. Methods Statement
8. Materials of Project
9. Beach Replenishment, Land Reclamation or Salt Marsh Feeding
10. Temporary Works
11. Dredge and Disposal of Dredge Material
12. Protected Sites
13. Other Consents
14. Statutory Powers
15. Public Register
16. Application Fee
17. Declaration

Check List

Please ensure that you have included all the necessary information before you submit your application. **If any of the below are not completed in the application form, the application is likely to be considered incomplete and may be returned to you**

Item	Yes (✓)
The applicant is a legal entity?	✓
The declaration is signed by the applicant?	✓
Is the application fee correct?	✓
Are the grid references/coordinates correct?	✓
Do the coordinates match map locations?	✓
Have all the relevant supporting documents been submitted?	✓
Has a clear methodology been provided in the application form?	✓
Has Protected sites information been included?	✓
Are all the continuation sheets for application questions appended with correct corresponding numbers?	✓

Should you have any queries regarding your application please contact the MLT via marinelicensing@naturalresourceswales.gov.uk

1. Project Description and Cost

1 (a). Project Name

Greenlink

1(b). Please provide a brief description of the proposed project, including location

Greenlink Interconnector Limited, trading as 'Greenlink', is proposing to develop an electricity interconnector linking the existing electricity grids in Ireland and the UK. The UK landfall is Freshwater West, Pembrokeshire. A previous Marine Licence application (RML1808) has been submitted for Routes A and B from Freshwater West to the UK/Ireland median line.

The subject of this application is a proposed Route E in Welsh inshore waters.

1(c). Please provide an estimated gross cost of the project (Inc. materials and labour) for works that fall below/seaward of Mean High Water Springs (MHWS)

Marine survey approximate cost £2.53 million (UK section of the route)

2. Applicant Details

To whom the licence will be issued. *This must be a legal entity such as an individual, registered company/ charity or public body.*

Title

Mr

Full Name

Tom Brinicombe

Company or Trading Name

Greenlink Interconnector Limited

Company Registration Number (if applicable)

536954

Name of Contact or individual (if different)

Position in Company

Development Manager

Address inc. postcode (provide registered Company address if applicable)

Unit C, Building 4200, Cork Airport Business Park, Cork, Ireland

Telephone Number

0044 7814 169 380

Email Address

Tom.brinicombe@elpower.com

3. Details of Agent, Contractor, Vehicles and/or Vessels used to carry out works

3(a). Agent Details

This is who we will correspond with unless otherwise informed. If no agent we will contact the applicant.

Title	Mrs	Full Name	Anna Farley
Company or Trading Name	Metoc Ltd trading as Interek Energy & Water Consultancy Services		
Company Registration Number (if applicable)	01489779		
Name of Contact or individual (if different)			
Position in Company	Project Manager		
Address (Inc. postcode)	Exchange House, Station Road, Liphook, Hampshire, GU30 7DW, UK		
Telephone Number	01428 728 537		
Email Address	Anna.farley@intertek.com		

3(b). Does the Applicant wish to be included in all correspondence? Yes No

3(c). Contractor Details

In order for contractors to benefit from the licence permission, details must be provided. Any details not provided with application must be confirmed before operations commence.

Contractor Company or Trading Name	Address
	Contractor for survey to be awarded in Q2 2018. Details will be updated at this point.

3(d). Will the works require the use of vessels?

Yes No

3(d) (i). Vessel Details (if applicable and available)

In order for contractors to benefit from the licence permission, details must be provided.
Any details not provided with application must be confirmed before operations commence.

Operator	Name of Vessel	Type of Vessel	Vessel Registration Number	Country of Registration
TBC after survey contract awarded (Q2 2018)				

3(e). Will the works require the use of vehicle?

Yes No

3(e) (i). Vehicle Details (if applicable and available) to be used below MHWS

In order for contractors to benefit from the licence permission, details must be provided.
Any details not provided with application must be confirmed before operations commence.

Operator	Type/Description of Vehicle

3(f). If the contractor or vessels or vehicles are not known at the application stage, when do you expect to provide these details?

These details will need to be confirmed prior to the licence and operations commencement

The process of procuring a survey contractor is underway. The intention is to award the contract in mid-June 2018. Contractor details and vessels will be available at this point.

4. Environmental Impact Assessment (EIA)

Certain projects, due to their scale, location and/or nature, may require an EIA under the Environmental Impact Assessment Directive (Directive 85/337/EEC – as amended). If a project qualifies under EIA, an Environmental Statement (ES) must be prepared and submitted with the application.

Projects that fall within Annex I of the Directive automatically require an EIA. Projects that fall within Annex II of the Directive are assessed on a case-by-case basis for the requirement for an EIA to be undertaken.

4(a). Do you consider the works to be under the Environmental Impact Assessment Directive (Directive 85/337/EEC – as amended)? Yes No

4(a) (i) If Yes, which Annex does the proposal fall under? Annex I Annex II

4(a) (ii) Which number(s) within the Annex does the proposal relate to?

4(b). Have you applied for a screening or scoping opinion from the MLT under the Marine Works (Environmental Impact Assessment) Regulations 2007 (as amended)? Yes No

4(b) (i). If Yes, please provide the reference number

4(c). Has an Environmental Impact Assessment been undertaken? Yes No

4(c)(i). If Yes, has an Environmental Statement been submitted to support this Marine Licence application? Yes No

4(d). If an Environmental Impact Assessment has been undertaken, but an ES has not been submitted, please provide an explanation

Please continue on a separate sheet if necessary. Please tick if you have done this

5. Licensable Period

Determination of applications will be based on the works taking place during these dates. Please ensure you have included an adequate contingency period. If works are not completed by the Requested Licence Expiry Date you may be required to submit a new application. *Including a contingency period within your original application does not impact on Licence Fee*

Start Date

Requested Licence Expiry Date

Please ensure you submit your application for a Marine Licence **at least 4 months** prior to the intended start date. Some projects, such as EIA projects, will take significantly longer to determine.

6. Project Description

6(a). Please give a description of the proposed project.

This should include the purpose of the project, estimated timescales of construction and operation, and broken down by the phases of works, if applicable.

Details should include, but not be limited to, dimensions of project, quantity of material being deposited and removed.

Attached document "P1975_R4478_Rev0_Greenlink Route E Project Description" describes the marine survey to which this marine licence application relates. The attached Habitat Regulation Appraisal Screening (P1975_R4479_rev0_HRA) provides an overview of the marine survey and subsequent project phases.

Please continue on a separate sheet if necessary. Please tick if you have done this

6(b). Please detail the location of the proposed construction project.

This should be either Ordnance Survey National Grid Reference (i.e. AB 12345 67890) or Latitude and Longitude in decimal degrees to 4 decimal places (i.e. Lat 52.1234 Long - 4.1234), defining the extent of the project. **Please specify which coordinate system has been used.**

Coordinates are provided in WGS84 listed in Latitude and Longitude. Coordinates are included on Figure 1-2 of the attached P1975_R4478_Rev0_Greenlink Route E Project Description. An RPL list is also provided on a continuation sheet and a shapefile of the application area has been included with the application.

Please continue on a separate sheet if necessary. Please tick if you have done this

6(c). The following must be provided with the completed application form:

- (i) a suitably scaled extract of an Ordnance Survey Map or Admiralty Chart with location of project, complete with **North Arrow** and **Scale**
- (ii) construction plans and sectional drawings showing those proposed works below/seaward of MHWS, which should give details of the materials to be used (for beach replenishment the quantity, particle size and source of material to be deposited and deposit location is also required).
- (iii) a descriptive schematic drawing and suitably scaled location plan which show the full extent of the project clearly in relation to the surrounding area and features.

Please list below **all supporting documents** that have been submitted with this application, including suitable documents/maps/drawing titles and reference numbers

Map included as Figure 1-2 in attached P1975_R4478_Rev0_Greenlink Route E Project Description

P1975_R4479_rev0_HRA – Greenlink Habitat Regulation Appraisal Screening Assessment – UK Marine Route E.

P1975_R4478_Rev0_Greenlink Route E Project Description

Greenlink_Application Area_Route E.zip

Please continue on a separate sheet if necessary. Please tick if you have done this

The applicant should note that these drawings/plans may be copied to others as part of the MLT's consultation procedures. If they are subject to copyright, it is the **responsibility of the applicant to obtain the necessary approvals to reproduce the documents and to submit up to 16 copies with the application.**

7. Methods Statement

7(a). Please provide a detailed method statement for the works

This must include methods for all works including temporary structures or deposits such as jetties, cofferdams, moorings or landing stages to be constructed seaward of MHWS

Please see document “P1975_R4478_Rev0_Greenlink Route E Project Description” which describes the marine survey to which this marine licence application relates.

7(b). Do you intend to undertake activities that could generate underwater noise?

This include piling, use of explosives, geophysical, acoustic deterrent devices and multibeam echosounders.

Yes No

7(b) (i). If Yes, what type(s) of activities will be undertaken?

Geophysical surveys to include mutli-beam echosounder, side scan sonar and sub bottom profiler.

7(b) (ii). If Yes, approximately how many days will the activity be undertaken for?

10 days

If Yes, you will be required to complete an additional form that will be provided.

7(c). Please state the measures to be taken to:

(i) Minimise risk to the marine environment

Geophysical surveys will be carried out before geotechnical surveys. Grab samples and geotechnical samples will then be positioned to avoid sensitive habitats such as reef. Drop down cameras will be deployed before geotechnical samples are taken to ground truth geophysical survey and ensure sensitive features are avoided. Follow survey decision-making strategy (see project description & HRA) to determine most advantageous route in terms of environmental and UXO risk. Geotechnical & environmental samples will only be collected on one of the three proposed routes e.g. either Route A, Route B (subject of application RML1808) or Route E (subject of this application). Consult NRW prior to positioning geotechnical samples.

(ii) Prevent undue interference to others

Notice to Mariners and Notice to Fishermen will be issued ahead of the survey. An onshore fisheries liaison officer will be available throughout the duration of the survey to liaise with the local fleet. A communication protocol has been established with Castlemartin Firing Range to ensure minimal disruption to the MoDs operations. Survey contract will hold kick-off meeting with Milford Haven Port Authority and Castlemartin Firing Range to ensure work programme and navigation risks are understood.

(iii) Maintain navigational safety, including marking and lighting of works

Vessels will comply with the internation regulations for preventing collisions at sea, 1972 (COLREGs) – as amended, particularly with the respect to the display of lights, shapes and signals. All vessels will exhibit signals in accordance with the UK standard markings schedule for offshore installations. Notice will be given to sea users in the area via notices to marines, kingfisher bulletins, NAVTEX and NAVAREA warnings.

Please continue on a separate sheet if necessary. Please tick if you have done this

8. Materials of Project

8(a). Description of materials to be deposited seaward of MHWS (Please tick all that apply)

- | | | | | | | | |
|--------|--------------------------|------------|--------------------------|----------|--------------------------|--------------------------|--------------------------|
| Timber | <input type="checkbox"/> | Iron/Steel | <input type="checkbox"/> | Concrete | <input type="checkbox"/> | Biocides/other chemicals | <input type="checkbox"/> |
| Silt | <input type="checkbox"/> | Stone/Rock | <input type="checkbox"/> | Gravel | <input type="checkbox"/> | Plastic/Synthetics | <input type="checkbox"/> |

Sand Other

If other, please provide a description of materials.

N/A

8(b). Delivery method of materials to site

If sea delivery, please include details of vessels to be used with a chart of proposed route and transshipment area. If vehicle delivery, please provide the proposed access route.

N/A

Please continue on a separate sheet if necessary. Please tick if you have done this

8(c). Will the works involve removals seaward of MHWS? Yes No

8(c) (i). Description of materials to be removed seaward of MHWS (Please tick all that apply)

Timber Iron/Steel Concrete Biocides/other chemicals
Silt Stone/Rock Gravel Plastic/Synthetics
Sand Other

8(c) (ii). Description of objects/materials to be removed seaward of MHWS

Including quantities to be removed.

The application area associated with Route E lies within Welsh territorial waters. If Route E is selected as the preferred option for geotechnical & environmental sampling up to 38 vibrocores / piston cores and approximately 39 grab samples will be acquired in the application area. It should be noted that an additional 21 vibrocores / piston cores and 36 grab samples would also be acquired in the RML1808 application area. This ensures that whole route from landfall at Freshwater West to the UK/median line is sampled. All samples will be less than 1m³.

9. Beach Replenishment, Land Reclamation or Salt Marsh Feeding

For works involving any of the above, please provide the following information

9(a). Is the material to be deposited like for like to existing material? Yes No

9(a)(i) If No for Beach Replenishment please provide justification why?

N/A

9(b). Description of material to be deposited

Please provide the grading specification of materials to be used, if using a range of grain sizes please state the percentage by weight passing. *If unsure, please refer to the Wentworth Scale*

N/A

Please continue on a separate sheet if necessary. Please tick if you have done this

9(c). Source of the material to be deposited

Including dredged or land based stating the origin of material

N/A

9(d). Has the material been chemically analysed?

Yes No

If material has been analysed, we may request this information to determine the application

9(d) (i) If Yes, is the analysis data been included with the application? Yes No

10. Temporary Works

10(a). Will there be any temporary deposits below MHWS?

Yes No

This includes construction materials, removed objects/material, jetties or cofferdams

If **Yes**, please continue with section **10**

10(b). Please provide the location of temporary deposits

Please include a map/chart displaying the location of temporary deposits, if necessary.

N/A

10(c). Description of temporary deposits

N/A

11. Dredge and Disposal of Dredge Material

If you are undertaking Dredge and Disposal activities please also complete the Dredge and Disposal application form and submit together.

11(a). Do you intend to apply for a marine licence to dispose of dredged material to sea as part of the works in this application? Yes No

12. Protected Sites

Licensing Authorities have a duty to ensure that projects will **not have significant adverse environmental impact**, particularly on any designated **European Site of Conservation Importance - Special Areas of Conservation (SAC) and Special Protection Areas (SPA), listed under the Habitats Directive (Council Directive 92/42/EEC on the conservation of natural habitats and of wild fauna and flora)**. In addition, it is Government Policy that Wetlands of International Importance (Ramsar sites) are also considered as European Sites. There is a duty to take reasonable steps to further the conservation and enhancement of nationally designated sites (Sites of Special Scientific Interest (SSSIs)).

12(a). Have you had pre-application correspondence with NRW, its legacy bodies or Natural England? Yes No

12(a)(i). If Yes, please provide copies of correspondence with application and state which team(s) you have contacted?

Telephone call with Lily Pauls (Natural Resources Wales) 03/05/2018 preceded by email. Email provided maps showing Route E in relation to potential reef feature. Call was to explain reason behind considering an alternative to Route A & Route B and to discuss if she had any concerns with the route.

Telephone call with Jonathan Monks (Milford Haven Port Authority) 09/05/2018 preceded by email. Email provided maps showing Route E in relation to Harbour limits, reef features and navigation markers etc. Call was to explain reason behind considering an alternative to Route A & Route B and to discuss if MHPA had any concerns with the route either from a conservation perspective or for navigational reasons.

12(b). Are any part of the works located *within or likely to affect* a designated conservation site? (SAC, SPA, SSSI or Ramsar) Yes No

12(b)(i). If Yes, which designated site(s) may be affected?

Pembrokeshire Marine SAC
West Wales Marine cSAC
Skomer, Skokholm and the seas of Pembrokeshire SPA

12(c). Please provide a description of all mitigation measures proposed to avoid any impact on designated conservation sites.

Please see proposed mitigation listed in Section 5.22 of the attached Greenlink Habitat Regulation Appraisal Screening Assessment – UK Marine Route E (P1975_R4479_rev0_HRA).

Please continue on a separate sheet if necessary. Please tick if you have done this

12(d). If the works are not located *within or likely to affect* a designated conservation site, please indicate the approximate distance to the nearest designated conservation site.

Works are within designated conservation sites.

Please note that if the proposed works are in or within 2km of a European Site of Conservation Importance you will have to provide suitable mitigation measure to avoid any impact on designated conservation sites.

13. Other Consents

Please detail all consents that you have applied for or received for these works

Type of Consent	Applied for	To be applied for	Reference Number	Date of Issue and Expiry
Planning Permission under Town and County Planning Act 1990 – From Local Planning Authority (LPA)				
Name and Address of LPA for location of works				
Land Owners Consent such as The Crown Estate Consent				
Port Authority or Local Harbour permissions	X			
Other NRW consents <i>such as Flood Defence or SSSI assent</i>	X		RML1808	TBC
Details of NRW consent	SSSI Assent will also be applied for in relation to RML1808.			
Other consents <i>such as Transport and Works Act Order, Section 36 Electricity Act, grant/loan sanction</i>	X			
Details of other consents	Crown Estate Seabed Survey Licence			

14. Statutory Powers

14(a). Does the applicant have statutory powers to consent any aspect of the project?
 E.g. coast protection authority, dredging powers, statutory undertakers Yes No

14(a)(i). If Yes, please give details and state the relevant legislation that gives these powers

15. Public Register

Under The Marine Licensing (Register of Licensing Information)(Wales) Regulations 2011 and the Environmental Impact Assessment Directive (Directive 85/337/EEC – as amended) , all information contained within or provided in support of this application will be placed on the Public Register unless NRW approve of the applicant’s reasons for withholding all or part.

15. Is there any information contained within or provided in support of this application that you consider should NOT be included on the Public Register on the grounds that its disclosure:

15(a). Would be contrary to the interest of National Security? Yes No

15(b). Would prejudice to an unreasonable degree you, or some other person’s commercial interest of those of a third party? Yes No

If **Yes** to either (a) or (b), please provide full justification as to why all or part of the information you have provided should be withheld

N/A

Please continue on a separate sheet if necessary. Please tick if you have done this

16. Application Fee

16(a). What are the corresponding fee band for this application? Band 2 Band 3

16(b) Band 2 Only

Projects are charged at a fixed fee of £1920. The application will not be processed until the correct fee has been provided.

Please provide the method of payment

Method	Yes (✓)	Reference Number
Cheque		
BACS (not remittance no.)		
World Pay (phone or CC1)		

Please attach **CC1 Form** with application. Can be found on our web pages

16(c) Band 3 Application only

Band 3 applications are charged at on hourly rate of £120 and are invoiced in arrears. Please complete the details below which will be required for invoicing.

Customer Name	Metoc Ltd (trading as Intertek Energy & Water Consultancy Services)
FAO	Anna Farley
Purchase order number	PO10771
Address for invoice	Intertek, Exchange House, Station Road, Liphook, Hampshire, GU30 7DW
Telephone Number	01428 728 537
Email Address	Anna.farley@intertek.com

17. Declaration

I declare that to the best of my knowledge and belief that the information given in this application form and supporting documentation is true.

WARNING: It is an offence under the Marine and Coastal Access Act 2009, under which this application is made, to fail to disclose information or to provide false or misleading information and can invalidate any licence granted.



Signature _____ Date 10/05/2018

Name (in capitals) TOM BRINICOMBE

Position in Company PROJECT MANAGER

*Applications cannot be processed unless signed by the **Applicant** (not agent), the applicant must have appropriate level of authority within the company.*

Applications will not be processed unless signed

Continuation Sheet:

Route_E_Rev_0: WGS84

ID	Easting (WGS84 UTM 30N)	Northing (WGS84 UTM 30N)	Latitude (WGS84)	Longitude (WGS84)
1	353988.924	5722447.108	51.634063	-5.109824
2	353972.3514	5722446.866	51.634056	-5.110064
3	353955.7798	5722447.173	51.634055	-5.110303
4	353657.4677	5722457.65	51.634071	-5.114615
5	353639.4198	5722458.611	51.634075	-5.114876
6	353621.4185	5722460.223	51.634085	-5.115136
7	353603.4872	5722462.485	51.634101	-5.115396
8	351348.7738	5722788.4	51.636438	-5.14809
9	355416.0154	5724233.306	51.650481	-5.089956
10	355364.5157	5724168.117	51.649882	-5.090673
11	355290.8113	5724066.289	51.648948	-5.091696
12	355286.7287	5724060.73	51.648897	-5.091752
13	355277.0783	5724048.196	51.648782	-5.091887
14	355155.3065	5723895.111	51.647375	-5.093582
15	355152.6838	5723891.842	51.647345	-5.093619
16	355149.8259	5723888.452	51.647314	-5.093658
17	355153.666	5723869.419	51.647144	-5.093595
18	355156.7596	5723850.251	51.646972	-5.093542
19	355159.1019	5723830.976	51.6468	-5.093501
20	355160.6893	5723811.624	51.646626	-5.09347
21	355161.5194	5723792.226	51.646452	-5.09345
22	355161.591	5723772.809	51.646278	-5.093441
23	355160.9039	5723753.405	51.646103	-5.093442
24	355159.4591	5723734.043	51.645929	-5.093455
25	355157.2589	5723714.751	51.645755	-5.093479
26	355150.9089	5723667.126	51.645325	-5.093551
27	355148.1005	5723648.658	51.645159	-5.093584
28	355144.6012	5723630.308	51.644993	-5.093627
29	355140.416	5723612.102	51.644828	-5.09368
30	355135.5508	5723594.066	51.644665	-5.093743
31	355130.0124	5723576.225	51.644503	-5.093815
32	355123.8087	5723558.605	51.644343	-5.093898
33	355116.9483	5723541.23	51.644185	-5.093989
34	355109.4409	5723524.124	51.64403	-5.094091
35	355101.2971	5723507.312	51.643877	-5.094201
36	355092.5283	5723490.818	51.643726	-5.094321
37	355083.147	5723474.663	51.643579	-5.09445
38	355081.8785	5723456.487	51.643415	-5.094461
39	355079.9472	5723438.368	51.643252	-5.094481
40	355077.3556	5723420.332	51.643089	-5.094511

41	355074.1073	5723402.403	51.642927	-5.094551
42	355070.2065	5723384.605	51.642766	-5.0946
43	355065.6586	5723366.96	51.642606	-5.094658
44	355060.4694	5723349.494	51.642448	-5.094726
45	355054.6459	5723332.229	51.642291	-5.094803
46	355048.196	5723315.187	51.642137	-5.094889
47	355041.1282	5723298.393	51.641984	-5.094984
48	354911.6285	5723005.598	51.63932	-5.096733
49	354903.5226	5722988.184	51.639161	-5.096843
50	354894.7538	5722971.093	51.639005	-5.096962
51	354885.335	5722954.352	51.638852	-5.097091
52	354875.2801	5722937.985	51.638703	-5.09723
53	354864.604	5722922.016	51.638556	-5.097377
54	354853.3224	5722906.469	51.638414	-5.097534
55	354732.1289	5722746.031	51.636941	-5.099217
56	354720.3881	5722731.088	51.636804	-5.09938
57	354708.088	5722716.601	51.63667	-5.099552
58	354695.2462	5722702.593	51.636541	-5.099732
59	354681.8814	5722689.082	51.636416	-5.099919
60	354668.0128	5722676.09	51.636296	-5.100114
61	354653.6605	5722663.633	51.63618	-5.100316
62	354638.8453	5722651.731	51.636069	-5.100525
63	354623.5884	5722640.401	51.635964	-5.100741
64	354607.9119	5722629.658	51.635863	-5.100963
65	354591.8386	5722619.519	51.635768	-5.10119
66	354448.6133	5722532.934	51.634953	-5.103223
67	354431.3171	5722522.944	51.634859	-5.103468
68	354413.6357	5722513.653	51.634771	-5.10372
69	354395.5973	5722505.075	51.634689	-5.103976
70	354377.2307	5722497.225	51.634614	-5.104238
71	354358.5652	5722490.114	51.634545	-5.104505
72	354339.6307	5722483.755	51.634483	-5.104776
73	354320.4572	5722478.157	51.634427	-5.10505
74	354301.0755	5722473.329	51.634379	-5.105328
75	354281.5164	5722469.279	51.634338	-5.105609
76	354261.8112	5722466.014	51.634303	-5.105892
77	354241.9912	5722463.538	51.634276	-5.106177
78	354222.0882	5722461.856	51.634256	-5.106464
79	354005.4795	5722447.899	51.634074	-5.109586
80	290967.5892	5729270.247	51.67545	-6.023387
81	290964.4314	5729270.404	51.67545	-6.023432
82	290951.7652	5729273.12	51.67547	-6.023617
83	318072.7655	5727910.508	51.672669	-5.631115
84	327533.2147	5729931.111	51.693804	-5.495436
85	339063.9064	5729217.746	51.690819	-5.328422

86	346085.9474	5726335.251	51.66689	-5.225641
87	349859.5285	5724016.22	51.647074	-5.170121
88	349806.6557	5724020.035	51.647094	-5.170886
89	346653.6594	5724817.969	51.653413	-5.216773
90	345666.52	5725426.576	51.658611	-5.2313
91	338900.611	5728226.275	51.681865	-5.330325
92	327559.6945	5728927.943	51.684801	-5.494557
93	318642.859	5727010.25	51.664767	-5.622412
94	317397.1344	5726709.293	51.661661	-5.640248
95	315895.4009	5726885.769	51.662756	-5.662029
96	307024.4312	5726972.797	51.660562	-5.790185
97	301740.2433	5727728.774	51.665512	-5.866915
98	301693.2091	5727733.162	51.665535	-5.867597
99	290975.2247	5729268.86	51.67544	-6.023275