

EXPERT REPORT OF Mr. RAKESH RANJANSCOPE:

1. The scope of present study is to conduct a scientific examination of claims and counterclaims of irreversible and/or reversible damages to a land parcel on floodplain of Yamuna due to Art of Living's event, World Culture Festival 2016 which was held between 11<sup>th</sup>, 12<sup>th</sup> and 13<sup>th</sup> of March 2016 (hereinafter referred to as "**Land Parcel**"). This Land Parcel can be delineated over a satellite imagery dated between 10<sup>th</sup> and 17<sup>th</sup> of March 2016 with all its installations and temporary (or permanent) infrastructure. The Land Parcel in this case is a finite portion of land over Yamuna floodplain bound by DND Flyway to its South; Barapullah Drain to its North; River Yamuna to its East and Ring Road to its West and more precisely the core area of activity has been marked over a high resolution satellite imagery available in public domain on google earth, dated 15<sup>th</sup> of March 2016 and it can be located by WGS 84 coordinates 28°34'55"N and 77°16'43"E [screenshot and interpretation are enclosed in **Annexure – I(Colly)**].
2. Scientific approach for confirmation or rejection of claims and counterclaims pertaining to impacts and/or damage to the original character of a particular land parcel on a floodplain as a result of some temporary infrastructure raised for a cultural programme, requires scientific examination of each of the claim with respect to statistically unbiased baseline data.

3. The scope of this study involves comparison of conditions recorded by way of satellite images of this Land Parcel on dates 'before the event' and dates 'after the event' to establish actual extent of impact and/or damages (if any) in qualitative terms and to the extent possible in quantitative terms. The pattern of changes has been studied over a series of satellite images ranging from 22<sup>nd</sup> of December 2000 to the dates in close proximity of World Culture Festival 2016 and dates after the event extending up to 25<sup>th</sup> of May 2016. An interpretation of these satellite images and delineation over these images forms the basis of qualitative (and quantitative to the extent possible) assessment of impacts and/or damages in this study report. Further to interpretations based on these images, established principles of science and engineering has also been relied upon to explain the natural and anthropogenic phenomenon related to this Land Parcel.

#### **METHODOLOGY:**

4. A series of satellite imageries of an identified Land Parcel over a time period adequately covering (i) pre-event months (and years); (ii) the period during the event; (iii) the period immediately after the event; and (iv) the period months after the event, creates a robust scientific record comprising statistically unbiased data to support creation of a fact sheet. Such repetitive record of satellite imageries in visible spectrum (the range within electromagnetic radiation within which human eye sees and recognises various features of nature) is the easiest way to establish the baseline information on a proven timeline, representing pre-monsoon and post monsoon seasons. This data could convincingly be utilised in.



decision making and ascertainment of facts pertaining to landform; ecology; environment; alteration or changes in land use etc. In recent years, this method of fact finding has gained popularity, and it has become the most convincing and economic way of establishing (and verifying) claims related to impacts and/or damage to ecology, environment and issues pertaining to a landform. Even Courts across various jurisdictions throughout the globe accept repetitive records of satellite images as evidence while ascertaining the factual position present at a particular Land Parcel on a particular date. The availability of satellite images in public domain on internet [for instance "Google earth"], has made it further accessible to the common people, scientific community and authorities, who could use relevant images for ascertaining the fact recorded in the form of satellite image.

5. High resolution satellite images uploaded on "Google Earth" are increasingly being used as a source of credible information pertaining to land and water more particularly in assessment of floodplains and post floods situation; geomorphology of rivers and water bodies; and in the study of ecology and environment of a particular landform. This approach is also in line with various decisions of the higher courts and is an acceptable course of action. Therefore, it is prudent to use a set of high resolution satellite images available in public domain on google earth for establishing the facts pertaining to the event induced impacts on the Land Parcel and/or floodplain of River Yamuna due to World Culture Festival 2016.

6. High resolution satellite imagery available in public domain on “Google Earth” for the Land Parcel over which World Culture Festival 2016 was organised, has been studied and interpreted along with ground verification. The images included in this study thoroughly cover the time frame of over 15 years. Timeline of these images are:

Table: Date of High Resolution Satellite Imagery Included in the Study		
S. No.	Date of Satellite Imagery	Remark
1	25/05/2016	Post Event (Extremely Dry Season/Pre-Monsoon)
2	10/05/2016	Post Event (Extremely Dry Season/Pre-Monsoon)
3	28/03/2016	Image After a Fortnight (15 days) (mosaic image with western half dated 28 <sup>th</sup> of March 2016 and eastern half dated 15 <sup>th</sup> of March 2016)
4	15/03/2016	Immediately (34 Hours) After the Event
5	03/03/2016	Pre-Event Image (08 Days before the Event)
6	27/02/2016	Pre-Event Image (13 Days before the Event)
7	15/12/2015	Pre-Event Image (Approximately 90 Days before the Event)
8	06/12/2015	Pre-Event Image
9	02/12/2015	Pre-Event Image
10	23/11/2015	Pre-Event Image
11	10/11/2015	Pre-Event Image
12	04/11/2015	Pre-Event Image
13	29/10/2015	Pre-Event Image
14	05/09/2015	Pre-Event Image
15	02/09/2015	Pre-Event Image
16	29/08/2015	Pre-Event Image
17	26/08/2015	Pre-Event Image
18	25/09/2014	Pre-Event Image
19	20/08/2014	Pre-Event Image
20	09/04/2014	Pre-Event Image
21	18/03/2014	Pre-Event Image
22	02/04/2013	Pre-Event Image
23	30/03/2013	Pre-Event Image
24	06/12/2012	Pre-Event Image
25	28/11/2012	Pre-Event Image
26	03/04/2012	Pre-Event Image



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27	08/03/2012	Pre-Event Image
28	24/01/2012	Pre-Event Image
29	14/12/2011	Pre-Event Image
30	13/01/2011	Pre-Event Image
31	10/06/2010	Pre-Event Image
32	31/01/2010	Pre-Event Image
33	03/05/2008	Pre-Event Image
34	21/01/2008	Pre-Event Image
35	15/10/2006	Pre-Event Image
36	09/10/2004	Pre-Event Image
37	13/05/2004	Pre-Event Image
38	02/04/2004	Pre-Event Image
39	23/02/2003	Pre-Event Image
40	20/05/2002	Pre-Event Image
41	06/03/2001	Pre-Event Image
42	01/02/2001	Pre-Event Image
43	22/12/2000	Pre-Event Image

Screenshot print of these Satellite Imagery available in public domain on Google Earth are being presented in Annexure – II (Colly) in their original form and respective interpretation sheet.

7. I have been approached by Vyakti Vikas Kendra India; Art of Living International Centre (Respondent No. 3) as an expert to opine on whether the event conducted by the Art of Living has had any adverse impact on the Land Parcel and its environment. This included examination of the claims and counterclaims associated with the case in Honourable National Green Tribunal. In this connection, I have been provided with the following papers and proceedings, with respect to Original Application 65 of 2016 (O.A. 65 of 2016):

- a) Original Application No.65 of 2016 dated 08.02.2016
- b) Reply to Original Application No. 65 of 2016 dated 16.02.2016

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- c) Inspection Report dated 16.02.2016 prepared by DDA in compliance of order dated 11.02.2016 of the Hon'ble Tribunal
  - d) Affidavit on behalf of Respondent No. 3 in compliance of the Order dated 23.03.2016
  - e) Affidavit dated 25.02.2016 filed on behalf of Public Works Department;
  - f) Affidavit dated 23.02.2016 filed on behalf of Irrigation and Flood Control Department
  - g) Reply on behalf of DDA dated 23 or 25.02.2016 to Original Application.
  - h) Submission by Original Applicant dated 26.02.2016
  - i) Status Report by Delhi Police
  - j) Compliance Affidavit on behalf of Irrigation and Flood Control Department dated 27.02.2016
  - k) Written Submissions dated 29.02.2016 on behalf of Respondent No. 3
  - l) Application dated 18.02.2016 on behalf of Respondent no. 3 to place additional facts on record
  - m) Miscellaneous Application 226/2016 dated 10.03.2016 by Original Applicant for directions
  - n) Miscellaneous Application 227/2016 dated 11.03.2016 by Respondent No. 3



- o) Miscellaneous Application 228/2016 by Respondent No. 3
- p) Miscellaneous Application 311/2016 dated 31.03.2016 by Respondent No. 3
- q) Reply to Miscellaneous Application 311/2016 by Original Applicant
- r) Miscellaneous Application 342/2016 dated 16.04.2016
- s) Miscellaneous Application 419/2016 dated 05.05.2016
- t) Additional Affidavit dated 10.05.2016
- u) Miscellaneous Application 561/2016 dated 27.05.2016
- v) Reply in Miscellaneous Application 419/2016
- w) Report by Individual member of Expert Committee (A.K. Gosain) dated 16.02.2016
- x) Report by Expert Committee dated 22.02.2016
- y) Report by Ministry of Environment and Forests
- z) Affidavit on behalf of Respondent No. 3 dated 30.05.2016 attaching pictures of the Land Parcel taken in April and May 2016

B. Orders in respect of O.A. 65/2016 from 11.02.2016 to 03.06.2016 including order dated 09.03.2016 and 11.03.2016.

Paragraph 7 of the interim order dated 9<sup>th</sup> March 2016 came to my notice -- the material portion of which runs as follows:

"7. It is the consistent view of the Experts and is sufficiently evident from the documents placed on record that the flood plains have been

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drastically tampered with while destroying the natural flow of the river, reeds, grasses, natural vegetation on the river bed. It has further disturbed the aquatic life of the river and destroyed water bodies and wet lands on the flood plains, which were in existence, as noticed in our judgment in the case of Manoj Misra vs. Union of India and Ors., OA No.6 of 2012 decided on 13th January, 2015. Furthermore, they have constructed ramps, roads, compaction of earth, pontoon bridges and other semi-permanent or temporary structures etc. even without the permission of the concerned authorities including Ministry of Water Resources. The permission granted by Government of NCT of Delhi is of no consequence as it is not the competent authority for rights over the river and in any case, it was a permission for only flood situation as is evident from the bare reading of the permission. In fact, that is the stand of Government of NCT of Delhi itself before the Tribunal.

For the damage caused to the environment, ecology, biodiversity and aquatic life of the river, the Foundation should be held liable for its restoration in all respects. In that regard and in exercise of our powers under Sections 15 and 17 of the NGT Act, 2010 we impose an Environmental Compensation, initially of Rs. 5 crores. This amount would be paid by the Foundation prior to the commencement of the event. This amount would be adjusted towards the final compensation determined to be paid by the Foundation for restoration work. We hereby direct the Principal Committee constituted under the judgment, to submit a report within four weeks from today, in relation to the steps required to be taken for restoration, restitution and rejuvenation of the flood plains to its original status. It will also state the approximate cost



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that would have to be incurred for such restoration and restitution. We further direct that the entire area in question shall be developed as a biodiversity park in terms of our judgment in the case of Manoj Mishra (supra). The cost thereof shall be paid by the Foundation and DDA in the proportion as would be directed by the Tribunal finally. The Foundation shall, by tomorrow, file an undertaking before the Tribunal that it would, within two weeks from date of demand by DDA, pay the balance amount for restoration, as directed by the Tribunal. The Principal Committee would be entitled to engage such other experts as it needs to assess the cost factor. We also constitute a Committee of the representatives of DPCC, MoEF&CC and Member Secretary, CPCB, who shall immediately inspect the site and issue directions by tomorrow in relation to the source of water, collection and disposal of the Municipal Solid Waste and sewerage generated during the event and also issue directions to ensure that there is no further environmental degradation or adverse impact on public health. They shall also issue directions with regard to the source of water and source of power and its utilization thereof. These would be treated as directions issued under Section 33A of the Water Act and Section 6 of the Environmental (Protection) Act, 1986 and would be binding upon the Foundation and all public authorities involved in the case."

8. With an aim to assist Honourable National Green Tribunal and/or court in establishing the facts, I hereunder, set out the scientific examination of each allegation and assessment of facts -- based on the record of the satellite images, ground verification and well established principles in science and engineering:

i. Re: "destroying the natural flow of the river":

A comparison of river morphology has been conducted on satellite images for the period between 22<sup>nd</sup> December 2000 till 10<sup>th</sup> May 2016. Fluvial Geomorphology of the river (i.e. landform related to the river) and its floodplain (over which the event was organised) indicates continuity of a pattern in channel dimension, sedimentation, bank deposition, bank erosion and flow of the river. On a careful examination of images between 26<sup>th</sup> August 2015 (month of Monsoon in Delhi) to 10<sup>th</sup> May 2016 (Pre-Monsoon Dry Summer Season) no abnormality in the pattern of flow; channel dimension; riverbed; or morphology of both the banks has been noticed. As per the record of images, at no point of time before, during and after the event of World Culture Festival 2016, any restriction, constriction or diversion has been recorded in the images. The same was further examined by ground verification in a series of field studies and found true for acceptance in scientific terms. Therefore, I conclude that natural flow of the river has not been destroyed.

ii. Re: "destroying the reeds, grasses, natural vegetation on the river bed"

The riverbed as defined in hydrology, geomorphology and ecology is the stream bottom over which water normally flows and only during floods water flows beyond the riverbed extending over the floodplain<sup>1</sup>. High pollution level in River Yamuna has led to a situation where dissolved oxygen tends to zero (often less than 1);

<sup>1</sup> Oxford Dictionary of Environment & Conservation- Chris Park & Michael Allaby; and Compact Oxford English Dictionary of Current English, 3<sup>rd</sup> Edition revised, Edited by Catherine Soanes & Sara Hawker



high load of suspended particulate matter; high turbidity almost blocking the sunlight penetration in the water within few centimetres of vertical depth etc. All of the above mentioned factors collectively create a situation where no macro flora could grow over or anchored within the riverbed of Yamuna. Reeds and grasses could only grow beyond riverbed in riparian zone of the floodplain. The images of last fifteen years indicate that except for some floating microflora and an invasive species of floating macro-flora, water hyacinth (*Eichhornia crassipes*), nothing grows within the area covered by riverbed of Yamuna along the Land Parcel. The images before during and after the event do not indicate any change or alteration in the water texture recorded in satellite images, which could indicate any anomaly or impact on the floating microflora of River Yamuna.

The images of last 15 years, indicate that the floodplain around the Land Parcel has some strips and patches of reeds. Those patches have been compared with the images after the event and on a comparison of images, no change in area covered by reeds has been observed. Riparian reeds along Barapulla drain and small patches behind and in front of the guide bank (near the bridge of DND flyway) are unaltered before, during and the period after the event. To further strengthen the findings based upon remotely sensed data, ground verification was also conducted by me and photographic inventory was prepared which confirms unaltered growth of reeds along Barapulla drain and in patches along DND Flyway. The photographic inventory is annexed herewith as Annexure-III (Colly).

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Immediately after removal of the carpets and the stage from the event venue on the Land Parcel, healthy growth of grasses and reeds was observed, despite dry season in Delhi. The same was photographed for scientific record. It is also important to note that growth of reeds and grasses is a bio-indicator, which confirms that no compaction of the Land Parcel has been done. It is an established scientific fact that reeds and grasses do not grow/re-grow over compacted ground.

Certain members belonging to the local community residing in the vicinity of the Land Parcel often cut reeds for thatching and for making some kind of floor mats and selling them along with decorative flowers. Reed being a rapidly proliferating species, it re-grows in riparian zone of Barapullah Drain and along river Yamuna in a very short time frame.

iii. **Re: "disturbed the aquatic life of the river"**

River Yamuna in Delhi is nearly devoid of fish species due to extremely low level (almost 'zero') of dissolved oxygen in the river water. Impact on microbial life in Yamuna needs water sampling and laboratory examination. The results of previous tests result (from secondary sources in various published documents) and records of microbial life in Yamuna indicate frightening state of environmental health for existence of fishes and other aquatic vertebrates.

The examination of the satellite images to ascertain change in the texture and colour of water in Yamuna for the period of approximately 90 days before the event and immediately after the



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event on 15<sup>th</sup> of March 2016 and on 10<sup>th</sup> of May 2016 shows no deviation from the usual trend. Remotely sensed data gives qualitative idea of suspended particulate matter and turbidity in the water, which inter alia indicate the extent of pollution in river water.

Factual situation analysed above, establishes that no noticeable disturbance to the ecology and aquatic life of River Yamuna took place between post monsoon months of 2015 to pre monsoon months of 2016; which covers the dates of World Culture Festival 2016, organised between 11<sup>th</sup> to 13<sup>th</sup> March 2016.

iv. Re: "destruction of water bodies and wetlands on the flood plains, which were in existence"

Study of satellite images over the timeline between 22<sup>nd</sup> December 2000 till 10<sup>th</sup> May 2016 reveals an important fact about the geomorphology and fluvial hydrology of the Land Parcel used for the WCF event. Satellite images and previous records of Survey of India maps [**Copy enclosed in Annexure - IB**] covering this Land Parcel reveal the fact that no enclosed waterbodies and wetland ever existed on this Land Parcel in recent history. In terms of floodplain geomorphology this Land Parcel over the Yamuna floodplain, is a "Point-Bar"; which are a depositional feature of active floodplains made up of sandy deposits (and alluvium in lower reaches of rivers before formation of delta) that accumulates on the inside bend (curve) of rivers below the slip-off slope. Point Bars are found in abundance in mature or meandering rivers in entire Ganga Catchment, to which River Yamuna belongs. River Yamuna flowing

through Delhi is in mature stage and it starts forming Point Bars at least 80km upstream of the Land Parcel allotted for the event of World Culture Festival 2016. To control floods, fluvial erosion and meandering of the river, flow in Yamuna has been heavily regulated through a series of barrages, which has seriously affected the natural flow, inter alia slowing down the geomorphic processes related to the fluvial hydrology of the river. Despite regulation and/or restriction of flow in Yamuna, due to the pattern of flow, the river has a natural tendency of forming 'Point Bar' at the event site and a bank of erosion on the other side. Therefore, to deal with this situation a 'Guide Bank (Guide Bund)' had been constructed (probably at the time of construction of the DND flyover) at this very location, which is in existence at least since the year 2000 as is evident from the satellite images. 'Guide Banks' are mostly constructed over Point Bar on one side and bank of erosion on the other side with an aim to train the meandering tendency of river. Guide Bank is sited on a Point Bar at the vertex, which is the local point of maximum curvature in the river. Therefore, the designers of the Guide Bank at this location (where WCI was organised) were sure of the existence of Point Bar at this location in terms of geology, geomorphology, fluvial hydrology, geotechnical properties and engineering considerations. In this study, extremely flat topography of the event site is evident in all the satellite images for last 15 years as well as in the Delhi Guide Map; third Edition 1985; on a scale of 1:25,000 Published by Survey of India [Copy enclosed in Annexure - IB], which further confirms that this land form is a Point Bar. This type of topography and very



gentle slope with elevation very close to river water level is a typical behaviour of a Point Bar. Since Point bars are low-lying, they are often overtaken by floods and can accumulate driftwood and other debris during times of high water levels. In a heavily polluted river with extremity of anthropogenic interventions flood accumulated driftwood and other debris is a strong possibility.

The reflectance of bare land in satellite images of dry season indicates the presence of extremely high sand content in the soil. Field assessment of sedimentological assemblage of this site also confirms this landform to be a Point bar comprising of dense sand deposit. Field assessment of sedimentological assemblage further indicates that the sand/sandy soil present at this Land Parcel is well sorted and fairly uniform in grain size. Although sub-stratum has not been investigated in this study but it is expected that the Land Parcel must be having intercalation deposits of flood debris, which has inherent characteristic of high permeability making it unsuitable to confine or hold surface water but it forms a good aquifer.

Consequently, uniform flatness and very rich sand content in this stratum makes it unsuitable for the formation of any confined surface water body and/or a wetland. Even in extreme rainfall and a condition of raised groundwater level, this Land Parcel could hold water for an insignificantly small time frame. Even if deliberate human intervention modifies this landform to create a wetland, that would not survive due to the sedimentology, topography,

geomorphology, fluvial hydrology and depositional phenomenon associated with every event of flooding.

Therefore, the records of satellite imagery, the aforementioned map published by Survey of India showing extreme flatness, the existence of 'Guide Bank' on this Land Parcel as elaborated above, the principles of geomorphology, fluvial hydrology, sedimentology and other undeniable scientific evidences enunciated above confirm nonexistence of any water bodies and wetlands on this Land Parcel over Yamuna floodplain.

**v. Re: "Construction of ramps"**

On close examination of satellite images two of the permanent ramps having bituminous pavement (which is now in dilapidated condition and potholes whereof are filled with earthen material) connecting the DND flyway with earthen service road came in existence on some date prior to January 2008 since they are present in the satellite imagery of 21 January 2008. Similarly, the ramp (or junction with slope) leading to the earthen service road from Ring Road is also in existence in the satellite image of 22 December 2000. Therefore, it is in existence from dates prior to December 2000.

Three additional earthen ramps have been recorded in satellite images after 27 February 2016 (but are not noticed in satellite images of previous dates). These three new ramps are made up of inert earthen material with a soil top, which has also been confirmed by



myself while conducting ground verification. No hard or soft pavement has been laid over these three earthen ramps.

The embankment of DND flyway is a mechanically compacted earthen structure (manmade-ground) protected by stone pitching and gabion boxes on either side, which has been appropriately designed to sustain dynamic and static load of the entire DND flyway along with adequate factor of safety (in engineering terms). These three earthen ramps have been constructed over (on top of) stone-pitched mechanically compacted embankment of DND flyway (without altering or disturbing the embankment of DND flyway). Consequently, the ramps are not on natural ground of the floodplain. Since these three earthen ramps are resting on the stone pitched embankment of DND flyway, their entire mechanical load including the vehicular movement over it (both static and dynamic load), is being transferred over mechanically compacted embankment of DND flyway and it has apparently no loading or physical impact over the natural floodplain of Yamuna at the event venue. Even during the peak use on the dates of event, net loading on these ramps was insignificantly small compared to the design capacity of the embankment of DND flyway. These ramps do not have any structural relation with the natural floodplain. As a result, actual environmental impact due to earthen ramps prior to, during or after the event is likely to be neutral towards the floodplain and it may be positive (if they are retained for future use) for the overall infrastructure. The photographs which evidence the above position are annexed as

**Annexure - IV.**

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Based on interpretation of high resolution satellite images and ground verification, environmental impacts of these ramps in qualitative terms have been assessed as:

- (i) In post event period these three ramps would support more vegetation (grasses and bushes) compared to the stone pitched compacted earthen embankment of DND-flyway. They are likely to be naturalised in a very short span of time with arrival of monsoon in Delhi.
- (ii) Due to the advantage of slope, these ramps are likely to facilitate future ecological management of the site, by providing an easy access to the site during restoration and rejuvenation works.
- (iii) These three ramps would facilitate in prevention of health and safety hazards to humans as well as wildlife in case of any emergency and/or needs associated with capturing and evacuation of estranged wildlife.
- (iv) These three ramps would facilitate policing, para-military and military operations in times of emergency.
- (v) These ramps would also support entry of ambulance and vehicle mounted medical support system in times of emergency.

vi. **Re: "construction of roads"**

On examination of satellite imageries, it is apparent that almost all earthen roads over and around the Land Parcel used for the event of World Culture Festival 2016 were in existence since 29<sup>th</sup> December



2000. The set of satellite imagery (screen shot and interpretation) with clear delineation of these roads is enclosed in Annexure-II (Colly).

The earthen tracks marked by movement of agricultural equipment like tractors and other loading vehicles for engineering works along guide bank; DND flyway and maintenance works of Barapullah drain are also existing since 29<sup>th</sup> December 2000 nevertheless minor modification in their shape and dimension has been observed as per requirement with passage of time between 29 December 2000 till 15 December 2015. But no modification has been observed in geometry of earthen roads due to the event on this Land Parcel.

Trails on agricultural farm land are of extremely temporary nature and it has been observed changing throughout the time frame between 29 December 2000 till date.

No construction of a specific road has been recorded before, during or after the event. Not even construction of earthen track is recorded in these images. Nevertheless, the markings of carpet laying is recorded in the images of post event days particularly in the satellite image of 10<sup>th</sup> of May 2016 and 25<sup>th</sup> of May 2016. These markings are temporary in nature and they are formed due to variation in reflectance due to changing soil moisture content of the exposed earth and earth beneath the carpet. They are not due to any physical change in landform. These markings would vanish with the advent of rains, which will uniformly distribute the soil moisture all over the Land Parcel.

vii. Re: "compaction of earth"

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An attempt was made to ascertain likelihood and extent of event induced compaction of earthen stratum (if any) on the Land Parcel. A study based on comparison of high resolution satellite imagery before, during and after the event does not show any change in micro-level geomorphology/landform or any ground subsidence in the Land Parcel. I further confirmed this by way of ground verification and field study of the Land Parcel. Accordingly, there is a strong likelihood, that no compaction has taken place due to the event. Nevertheless, based on the study of satellite images, we can make only qualitative statement pertaining to the consolidation and/or compaction.

For a confirmative statement on extent and exact reason of consolidation and/or compaction in qualitative and quantitative terms, laboratory test of undisturbed soil samples from the Land Parcel will be required. By comparing the current soil density with previous records of soil density over the Land Parcel, the difference can be worked out, which would indicate the extent of consolidation and/or compaction due to the event. But conducting such a test of unconfined sand/sandy soil appears almost impossible due to the established principles of soil mechanics. Referring to the established principles of soil mechanics and geotechnical engineering, the text books confirm that:

*"Normally, no consolidation tests are done on samples of sand as the compression of sand under external load is almost instantaneous as*



can be seen in pressure-void ratio curves (% consolidation v/s time in minutes) for sand, which gives a typical curve showing the time verses the compression caused by an impact of load. [Figure -1 (plot -a)]

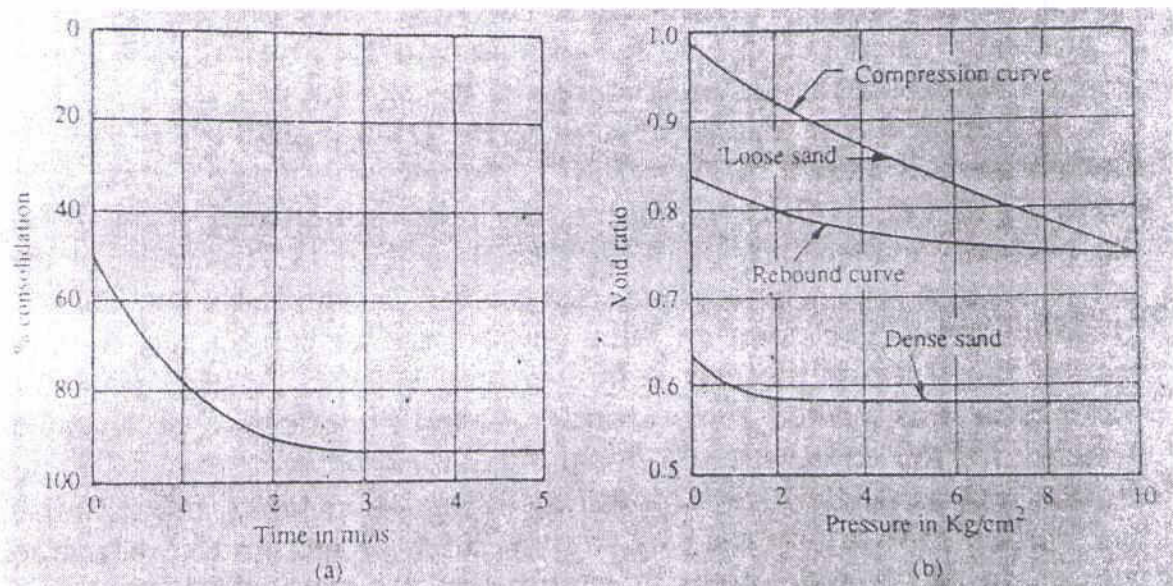


Figure 1: Pressure-void ratio curves for sand

(Source: "A Text Book of Soil Mechanics & Foundation Engineering; Fourth Revised & Enlarged Edition; Author - Prof. V.N.S. Murthy")

In this curve it is evident that more than 90% of compression has taken place within a period of less than 2 minutes. The time lag is largely of frictional nature. The compression is about the same whether the sand is dry or saturated. The shape of typical 'void ratio' v/s pressure curve also known as e-p curves for loose and dense sands are shown in Figure -1 (plot -b). The amount of compression even under high load intensity is not quite significant as can be seen from the curves. [Reference - "A Text Book of Soil Mechanics & Foundation Engineering; Fourth Revised & Enlarged Edition; Author - Prof. V.N.S. Murthy; UBS Publishers Distributors Limited; Page No.256-257 (Pressure-void Ratio Curves)]

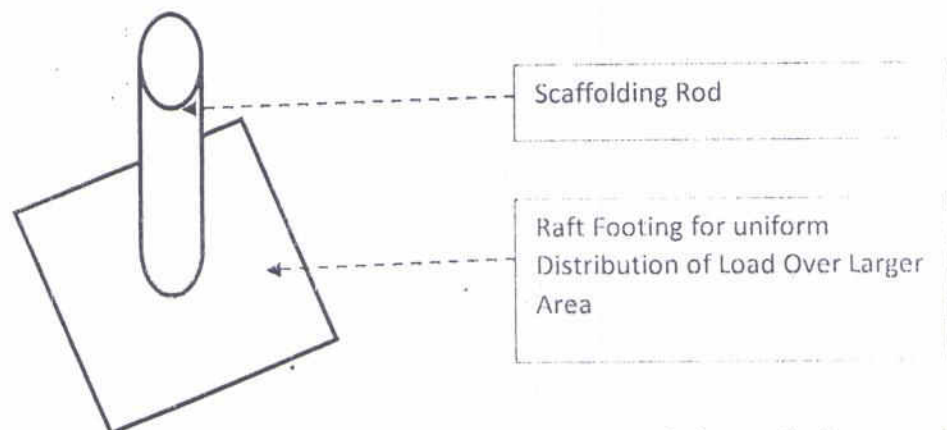
It was thought prudent to evaluate likelihood and extent of consolidation and/or compaction of soil at this Land Parcel based on the principle of soil mechanics' as explained above, in 'pressure-void ratio curves' for sand and accordingly, the following conclusion can be drawn:

- i. Mineralogical composition of the stratum and surface of the Land Parcel is predominantly composed of dense sand.
- ii. As explained in the '% consolidation v/s time (in minutes) curve' 90% of the consolidation has taken place in less than 2 min, therefore it is obvious that natural consolidation of this Land Parcel would have taken place in geological past immediately after deposition with some movement of animals and humans over it.
- iii. Furthermore, the curve for dense sand in 'Void ratio v/s pressure in  $\text{Kg/cm}^2$ ' indicates that dense sand (as deposited by Yamuna and Ganga) does not show noticeable changes with increase in pressure. It is an undeniable fact that this Land Parcel has been under agricultural practices since decades (if not centuries). Agricultural practices; tilling (harrowing); movement of farm equipment and agricultural machinery; movement of dumpers for unabated dumping of construction waste for years and then the movement for trucks and dumpers for removal of the same has already shaped the consolidation and/or compaction of this Land Parcel ages before the event of World Culture Festival 2016 was organised. Even fractional consolidation (something of academic interest) on this Land Parcel dates back to the year when this



Point Bar was deposited; and the likely cause of this consolidation are movement of cattle, tractors, farming machinery and truck loaded with construction material for construction of guide bank, DND flyway and Barapullah drain etc. Possibility of subsequent compaction is insignificant. Therefore, it is almost impossible that any further consolidation and/or compaction would have taken place at the event site due to the event compared to the baseline conditions existing before the event.

- iv. As a matter of fact, this property of dense sand of Yamuna and Ganga makes them valuable material for filling in embankments, and plinth of buildings as inert material in terms of consolidation and/or compaction.
- v. Moreover, it is also important to note that the entire stage for the event was supported on a series of iron scaffolding with raft footing (as illustrated in figure - 2).



*Figure - 2: Schematic representation of the raft footing for each of the scaffolding element used for the stage*

Nothing was anchored in the natural stratum to hold the stage, overall the stage had a floating foundation. Its impact on the

ground is negligible. Annexure –V contains the photographs of the stage its scaffolding, footing and its comparison with a yogi sleeping on a bed of thorns to signify that (which inspired the design of the stage).

Therefore, consolidation and/or compaction of the Land Parcel due to the three-day event appears improbable.

9. Re “construction of pontoon bridges”

While studying and interpreting high resolution satellite image dated 3<sup>rd</sup> March 2016 one pontoon bridge is noticed across River Yamuna immediately after the confluence of Barapullah drain with the river. Similarly, the satellite image dated 15<sup>th</sup> of March 2016 has three pontoon bridges across River Yamuna (one being half dismantled) and three small pontoon bridges across Barapullah drain. It is important to point out for the record that the satellite image dated 15th December 2015 has no pontoon bridge(s) at their respective location as noted in satellite image of 15th March 2016. Therefore, it is probable that these pontoon bridges must have been constructed sometime in last week of February 2016 and in no case did their construction begin before late December 2015.

While conducting ground verification in the month of April 2016, I could not find any permanent or temporary remains of pontoon bridges which could cause an environmental impact on the river and its immediate environs.



Past experience in conducting environmental impact assessment for bridges, it has been learned that pontoon bridges are generally considered 'neutral' in terms of environmental impacts, barring few exceptional cases where the river stretch is traversing through the core conservation area of aquatic mega fauna like crocodilians and dolphins (that is not the case with present stretch of River Yamuna in Delhi). Pontoon bridges do not create obstruction in fluvial hydrology; they have no load bearing relation with the riverbed and they do not require any pier or abutment. Environmental studies prove them to be most environment friendly type of bridge structure. [Annexure -VI Onsite photographs of Pontoon Bridges].

**CONCLUSION:**

Study of a series of satellite images over a time frame (temporal records) for the Land Parcel used by World Culture Festival 2016, indicates that almost no adverse impact on the allotted Land Parcel of Yamuna floodplain has taken place due to the event.

  
**RAKESH RANJAN CEnv FIES**  
**Independent Consultant**

**Dated: 30.07.2016**

**Place: New Delhi**

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BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL

AT PRINCIPAL BENCH, NEW DELHI

ORIGINAL APPLICATION NO. 65 OF 2016

**IN THE MATTER OF :-**

**Manoj Kumar Mishra**

**...Applicant**

**VERSUS**

**Delhi Development Authority & Ors.**

**...Respondents**

**AFFIDAVIT OF Mr. RAKESH RANJAN**

I, Rakesh Ranjan, residing at 88- Ajanta Apartments, 36-Indraprastha Extension, New Delhi-110092, India, do hereby solemnly affirm and say as follows:



Vyakti Vikas Kendra India, has approached me as an Expert to opine whether the World Culture Festival hosted by them has had any adverse impact on the land parcel on which the event was held and/or its environment. I have independently carried out an assessment and have prepared a report containing my findings. The said report along with the accompanying Annexures is annexed to this Affidavit. I repeat and reiterate the contents of the report as if the same were incorporated

Rakesh Ranjan



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herein in extenso. The said report should be treated as forming part of  
this Affidavit.

Rakesh Ranjan  
DEPONENT

**VERIFICATION:**

I, Rakesh Ranjan, the deponent above named, do hereby verify that that  
the contents of my above affidavit are true and correct, no part of it is  
false and nothing material has been concealed therefrom.

Verified at New Delhi on this \_\_\_\_ day of August, 2016,

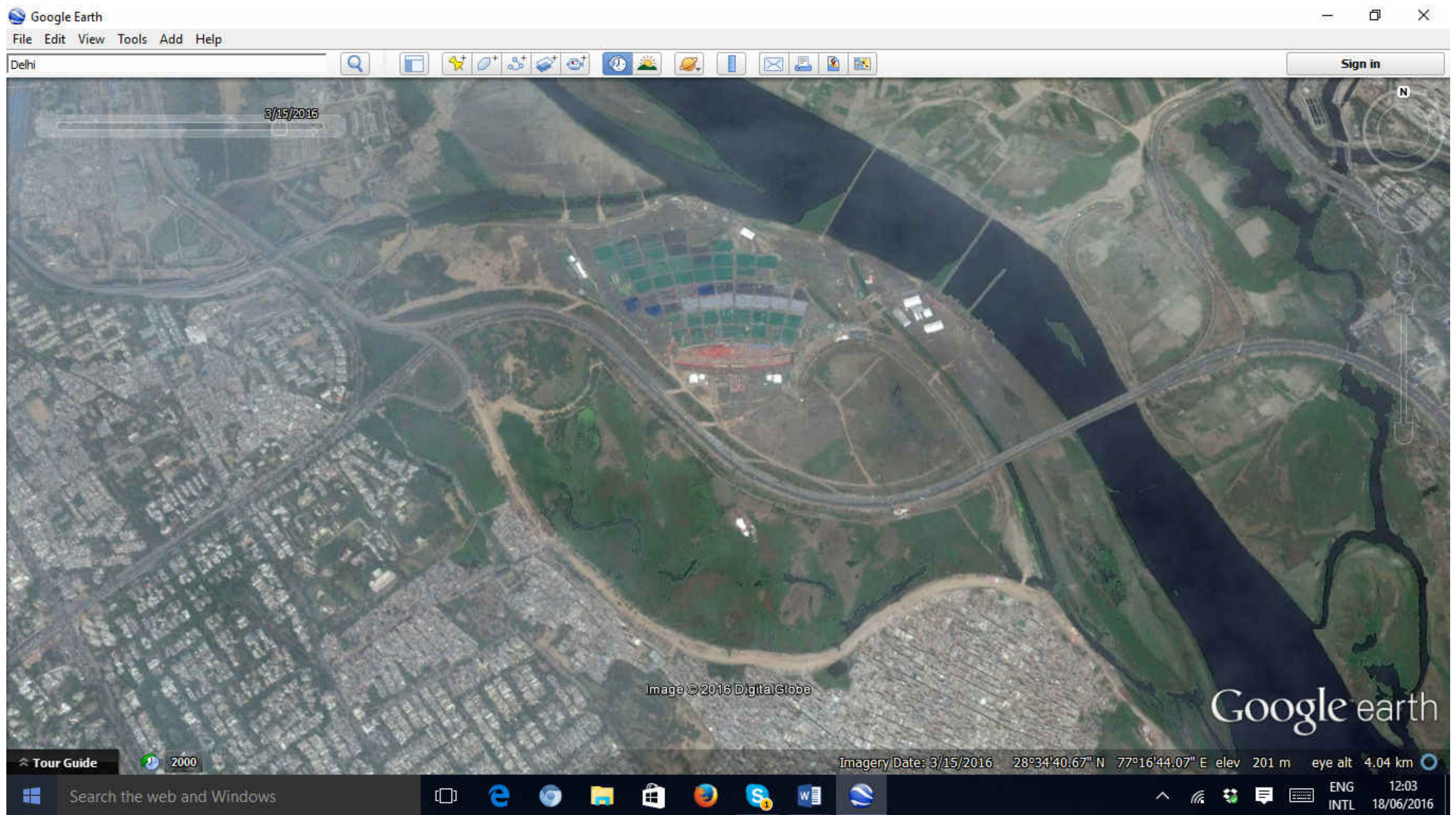


[Signature]  
I identified the deponent who  
has signed in my presence

ATTESTED  
[Signature]  
NOTARY PUBLIC  
DELHI (INDIA)

Rakesh Ranjan  
DEPONENT





Screen shot image dated 15/03/2016 (two days after the event), depicting entire area utilised for the World Culture Festival 2016 event with all the temporary installations, which are clearly identifiable.



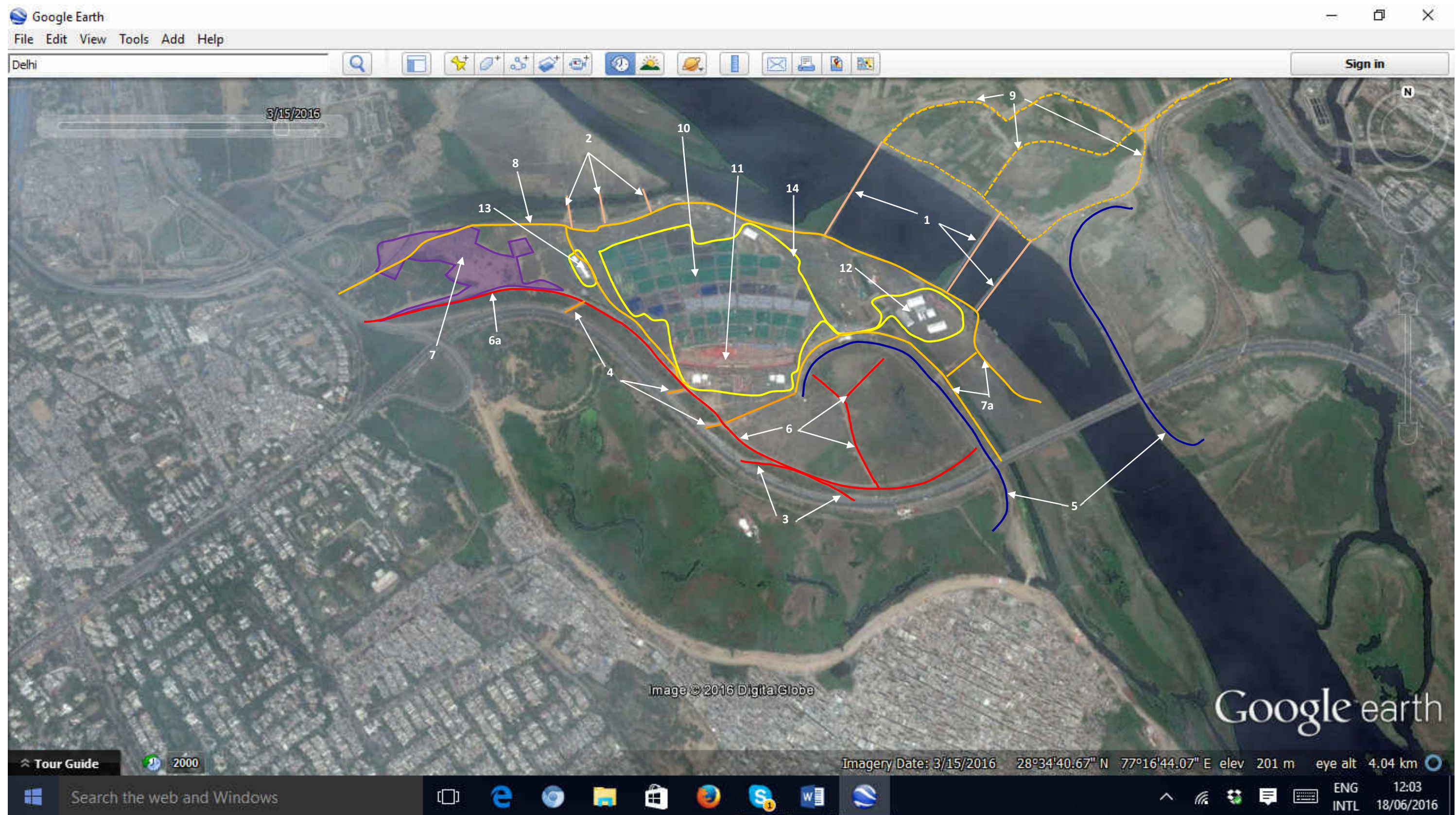




Image dated 15/03/2016, depicting entire area utilised for the World Culture Festival 2016 event with all the temporary installations, which are clearly identifiable. For ease of identification, every temporary installation has been labelled as:	
1. Three Pontoon Bridges Across River Yamuna	8. Unpaved earthen road running parallel to Barapullah Drain, which is in existence at least since Year 2000, used for vehicles and earthmovers engaged in drain cleaning, sludge and silt removal in this section of Barapullah Drain.
2. Three Small Pontoon Bridges Across Barapullah Drain	9. Earthen walkway for pedestrian providing approach to pontoon bridges from DND Flyway and Noida Link Road
3. Permanently Ramps Existing Since 2008 (Having Bituminous Pavement, with potholes and degenerating Bituminous Overlay)	10. Siting area for the audience (having carpet and chairs)
4. Three Earthen Temporary Ramps (For Emergency Evacuation; Health and Safety Requirements; and VVIP Security)	11. stage for the event (distinct by red colour carpets)
5. Guide Bank along River Yamuna	12. Artist/Performers Dressing Area and emergency health care facility
6. & 6a. Gravelled road (also having patches of degenerating bituminous pavement towards eastern end) parallel to the DND flyway existing at least since year 2000; having lateral spurs approaching Guide Bank.	13. Modular toilet blocks
7. Area marked by  previously having mounts of Construction Waste and Solid Waste, which has been cleared for the WCF 2016 event.	14. Extent of the core area marked by  , which has been utilised for the stage; sitting arrangements; artist camps; modular toilet blocks; and emergency health care facilities etc.





Annexure – I B: A Portion of 1:25000 Scale Detailed Map of Delhi; Published by Survey of India in Year 1985, Under the Direction of Major General Girish Chandra Aggarwal, Surveyor General of India; Titled – “Delhi Guide Map, Third Edition 1985”.

The map clearly depicts the WCF 2016 event site as an extremely flat “Point Bar” (floodplain deposit) without existence of any wetland or enclosed waterbody. The flatness of this land parcel is to the extent that contour indicating difference in height of the order of 100cm is also non-existent throughout the area.

Another important point for record in this map is the existence of natural path of ‘Kushak River – Barapullah Drain’ prior to straightening of its channel traversing straight into River Yamuna and filling of its original channel. The map also depicts the situation prior to construction of Guide Bank and DND Flyway.







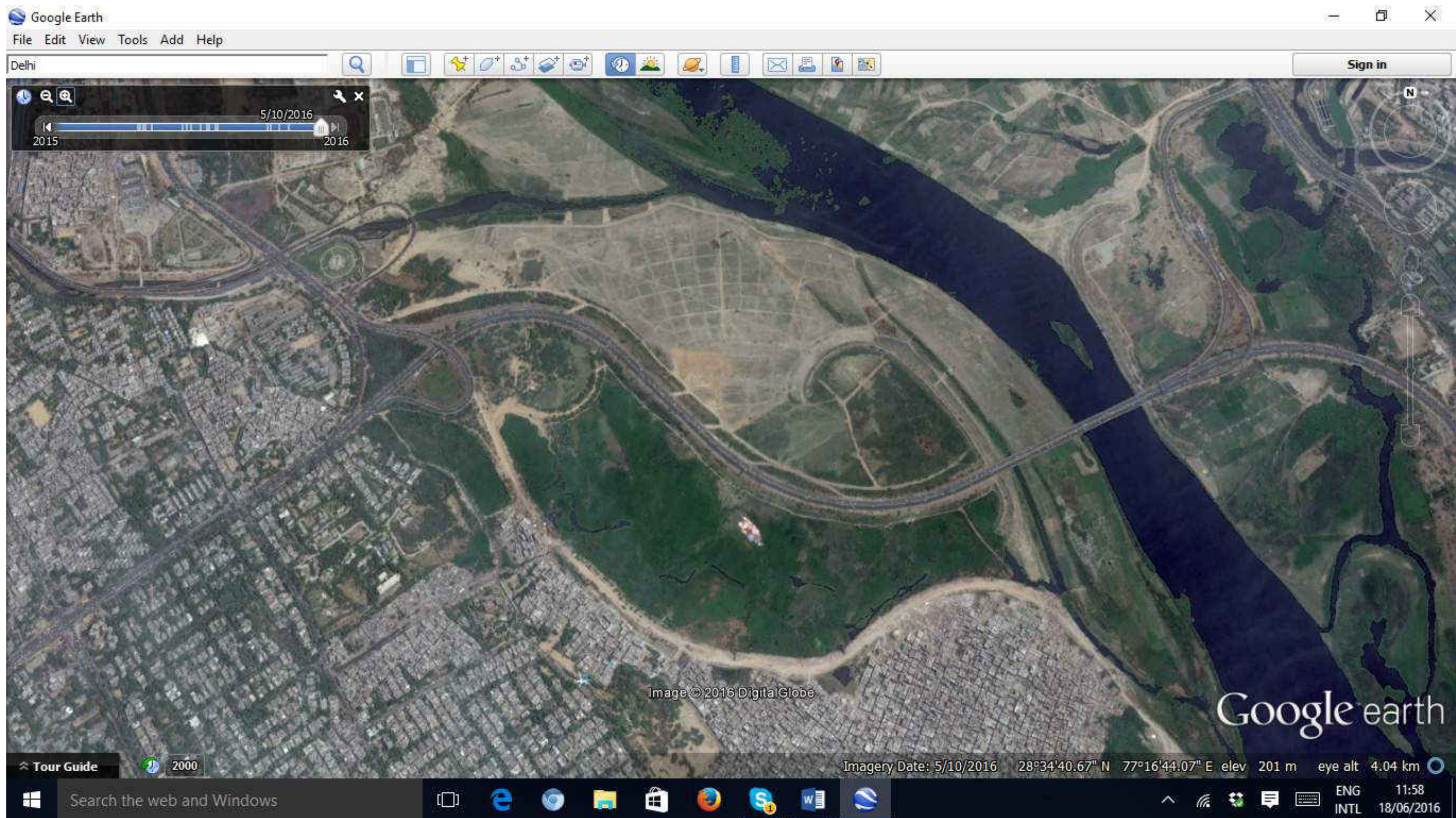
Screen shot of satellite image dated 25/05/2016 depicting entire area utilised for the World Culture Festival 2016 event (Now evacuated, cleared, and all the temporary installations removed).





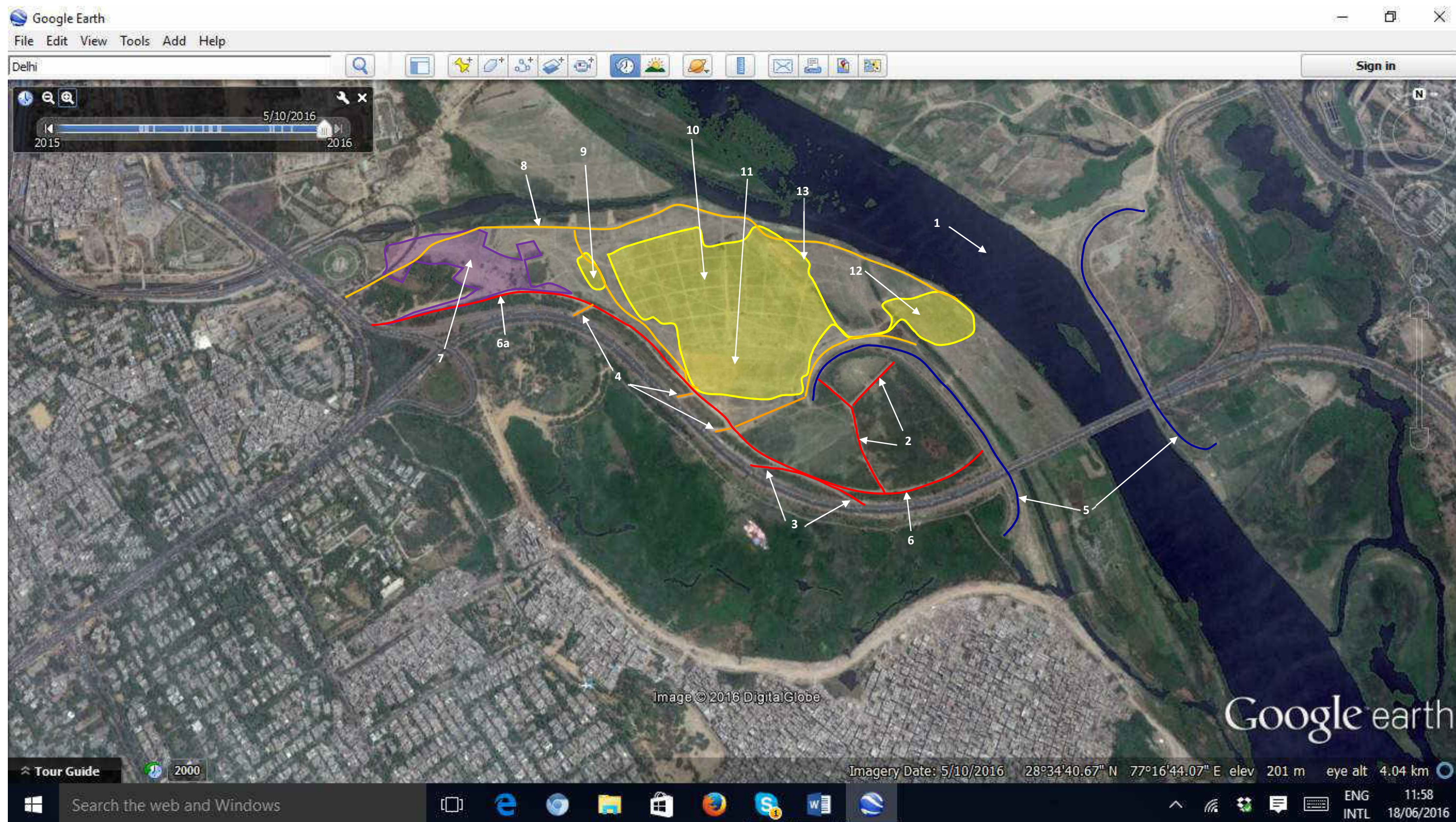
Satellite Image dated 25/05/2016 depicting entire area utilised for the World Culture Festival 2016 event (Now evacuated, cleared, and all the temporary installations removed):	
1. River Yamuna flowing as usual	8. Unpaved earthen road running parallel to Barapullah Drain, which is in existence at least since Year 2000, used for vehicles and earthmovers engaged in drain cleaning, sludge and silt removal in this section of Barapullah Drain.
2. Road on the floodplain linking the Guide Bank	9. Area used for modular toilet blocks during the three-day event
3. Permanently ramps existing Since 2008 (having bituminous pavement, with potholes and degenerating bituminous overlay)	10. Area used for siting arrangements for the audience (having carpet and chairs) during the three-day event
4. Three temporary earthen ramps	11. Area used for construction of stage for the three-day event
5. Guide Bank along River Yamuna	12. Area used for camps for artist/performers dressing and emergency health care facility
6. & 6a. Gravelled road (also having patches of degenerating bituminous pavement towards eastern end) parallel to the DND flyway existing at least since year 2000; having lateral spurs approaching Guide Bank.	13. Extent of the core area marked by  , which has been utilised for the stage; siting arrangements; artist camps; modular toilet blocks; and emergency health care facilities etc.
7. Area marked by  previously having mounts of construction waste and solid waste, which has been cleared for the WCF 2016 event.	







Screen shot image dated 10/05/2016, depicting entire area utilised for the World Culture Festival 2016 event (Now evacuated and all the temporary installations removed).

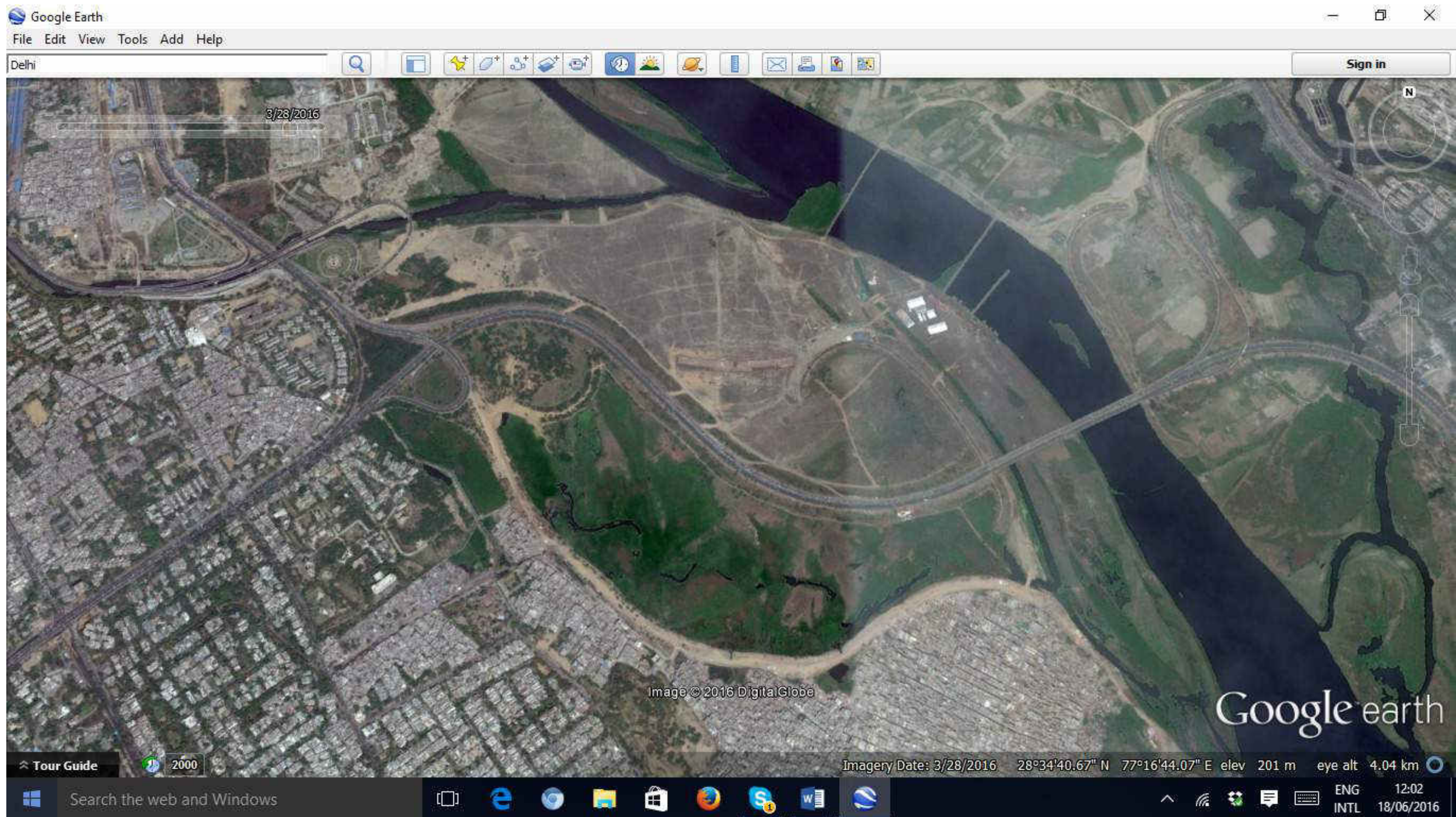




**Image dated 10/05/2016, depicting entire area utilised for the World Culture Festival 2016 event (Now evacuated and all the temporary installations removed) :**

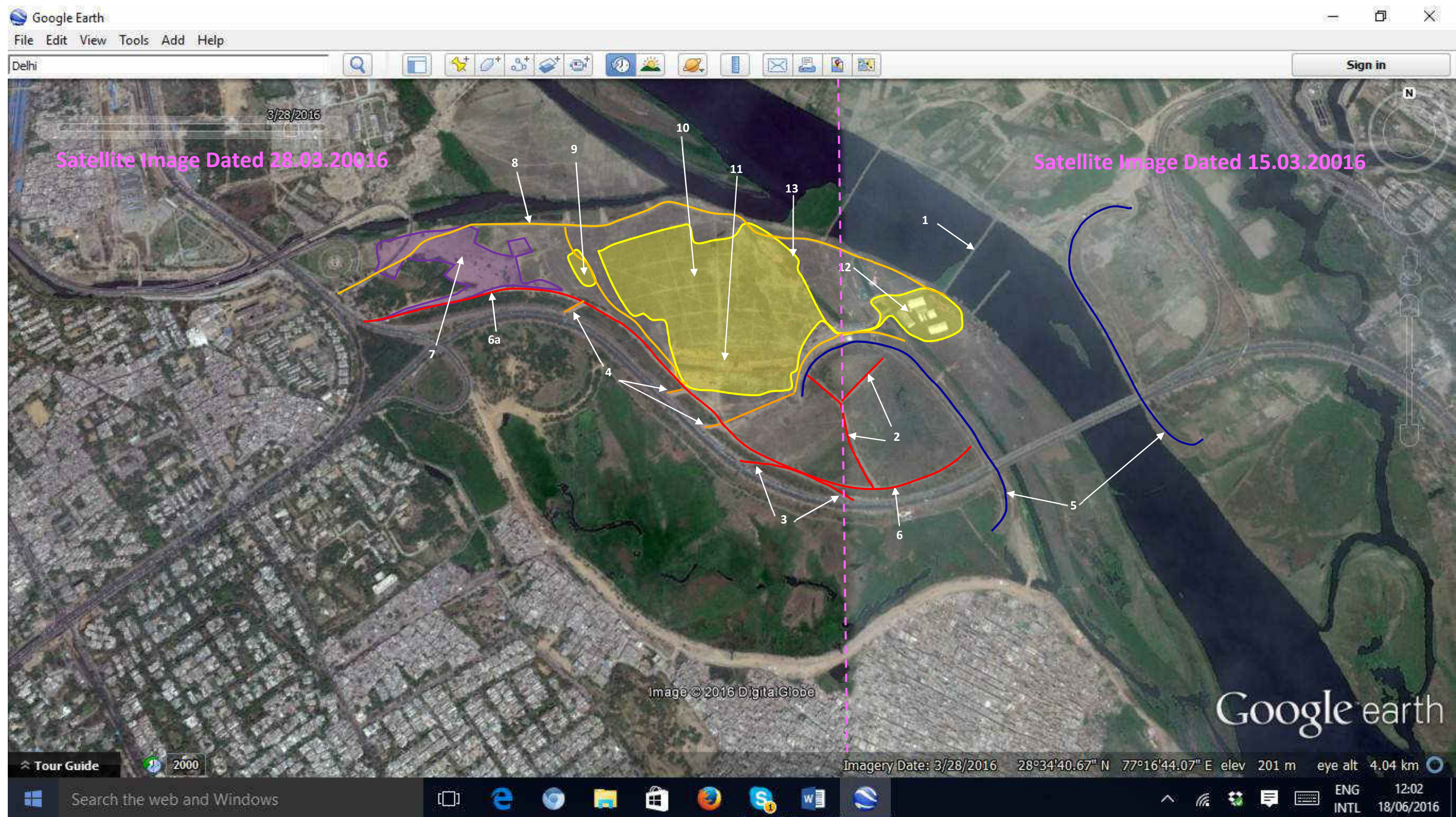
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6. & 6a. Gravelled road (also having patches of degenerating bituminous pavement towards eastern end) parallel to the DND flyway existing at least since year 2000; having lateral spars approaching Guide Bank.	13. Extent of the core area marked by  , which has been utilised for the stage; sitting arrangements; artist camps; modular toilet blocks; and emergency health care facilities etc.
7. Area marked by  previously having mounts of construction waste and solid waste, which has been cleared for the WCF 2016 event.	







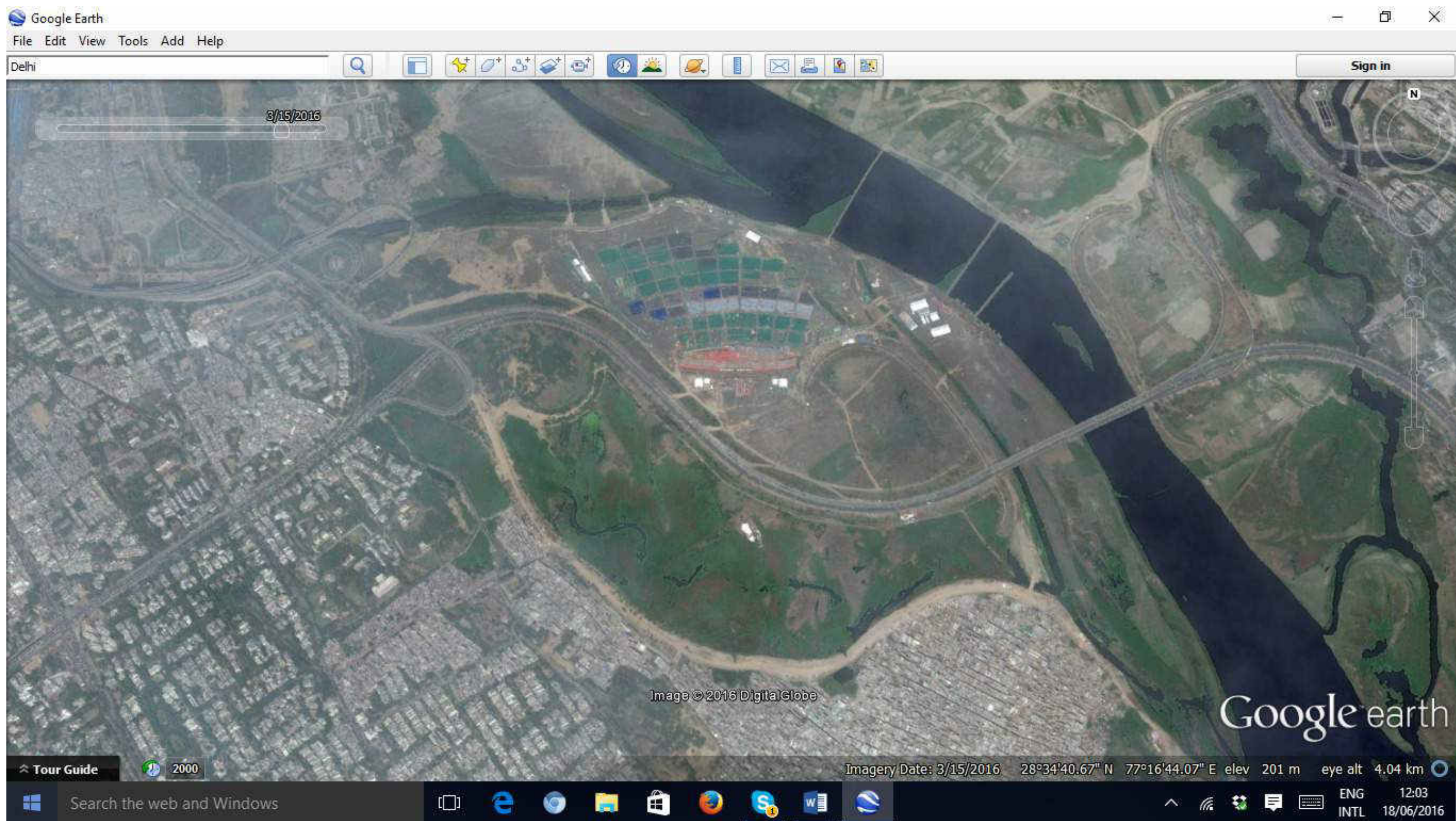
Mosaic Image with western half dated 28/03/2016 and eastern half dated 15/03/2016 depicting entire area utilised for the World Culture Festival 2016 event (Now evacuated, cleared with all accidental litters; temporary installations except the stage scaffoldings which are being removed):





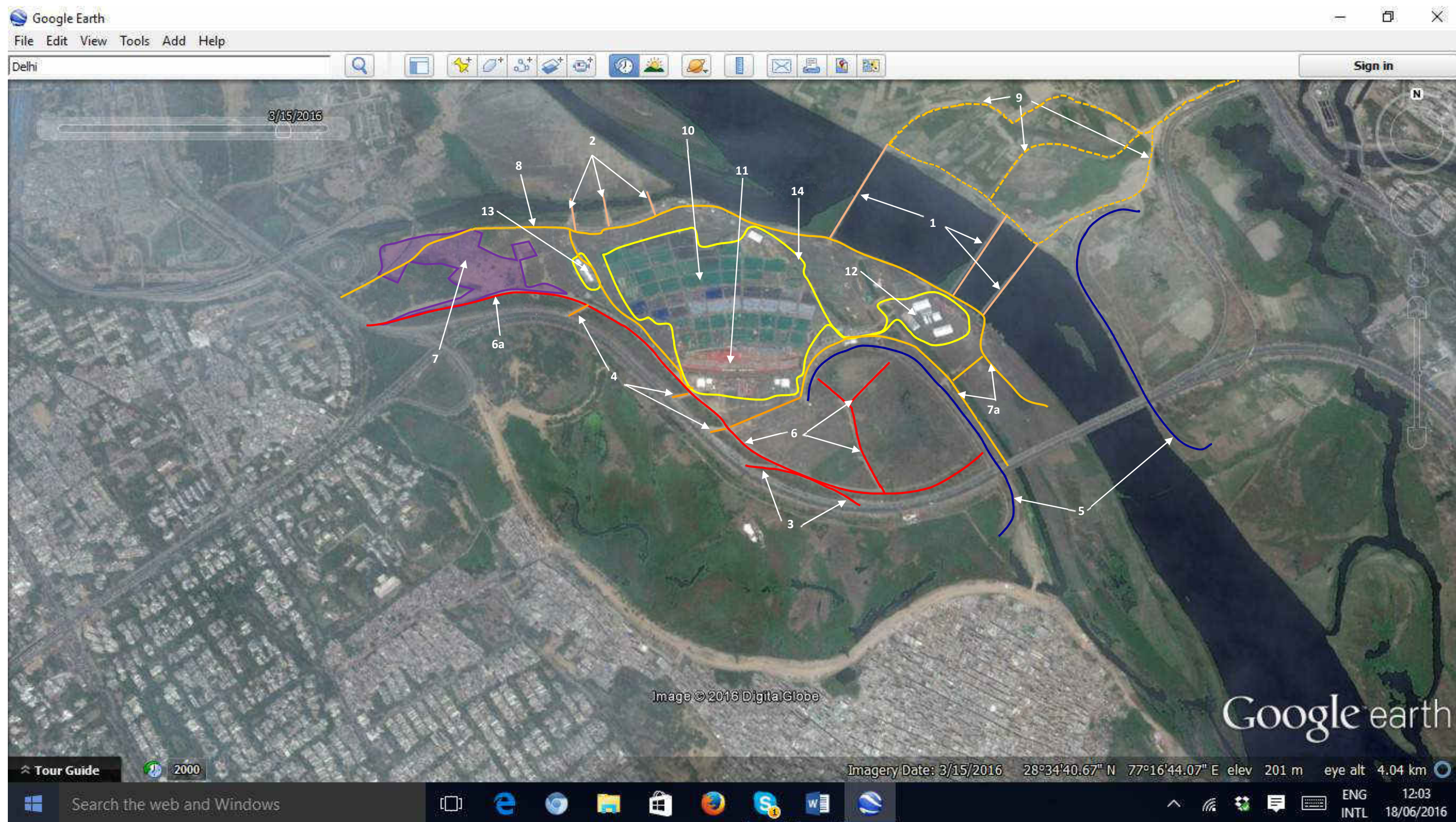
<b>Mosaic Image with western half dated 28/03/2016 and eastern half dated 15/03/2016 depicting entire area utilised for the World Culture Festival 2016 event (Now evacuated, cleared with all accidental litters; temporary installations except the stage scaffoldings which are being removed):</b>	
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





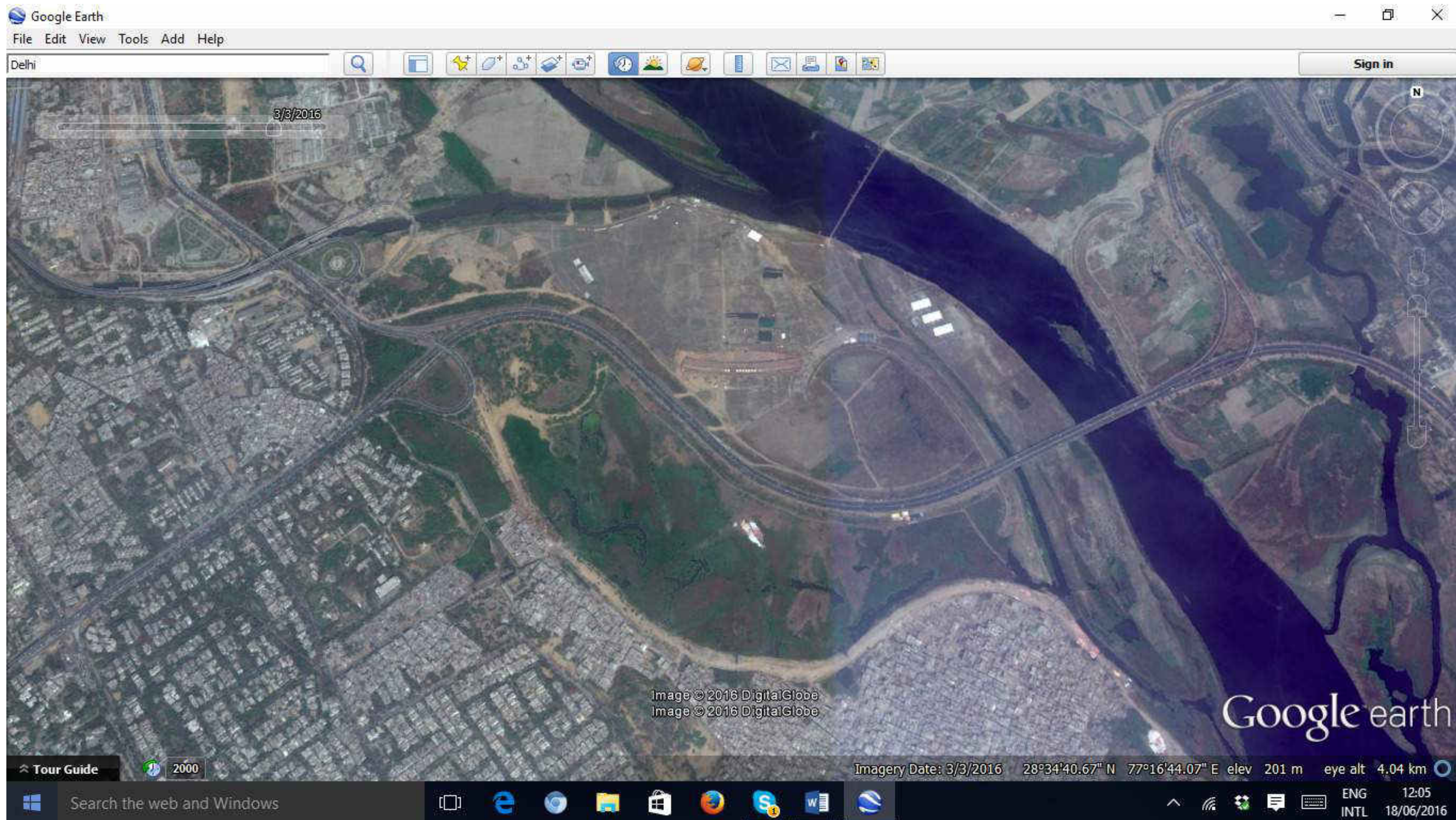
Screen shot image dated 15/03/2016 (two days after the event), depicting entire area utilised for the World Culture Festival 2016 event with all the temporary installations, which are clearly identifiable.





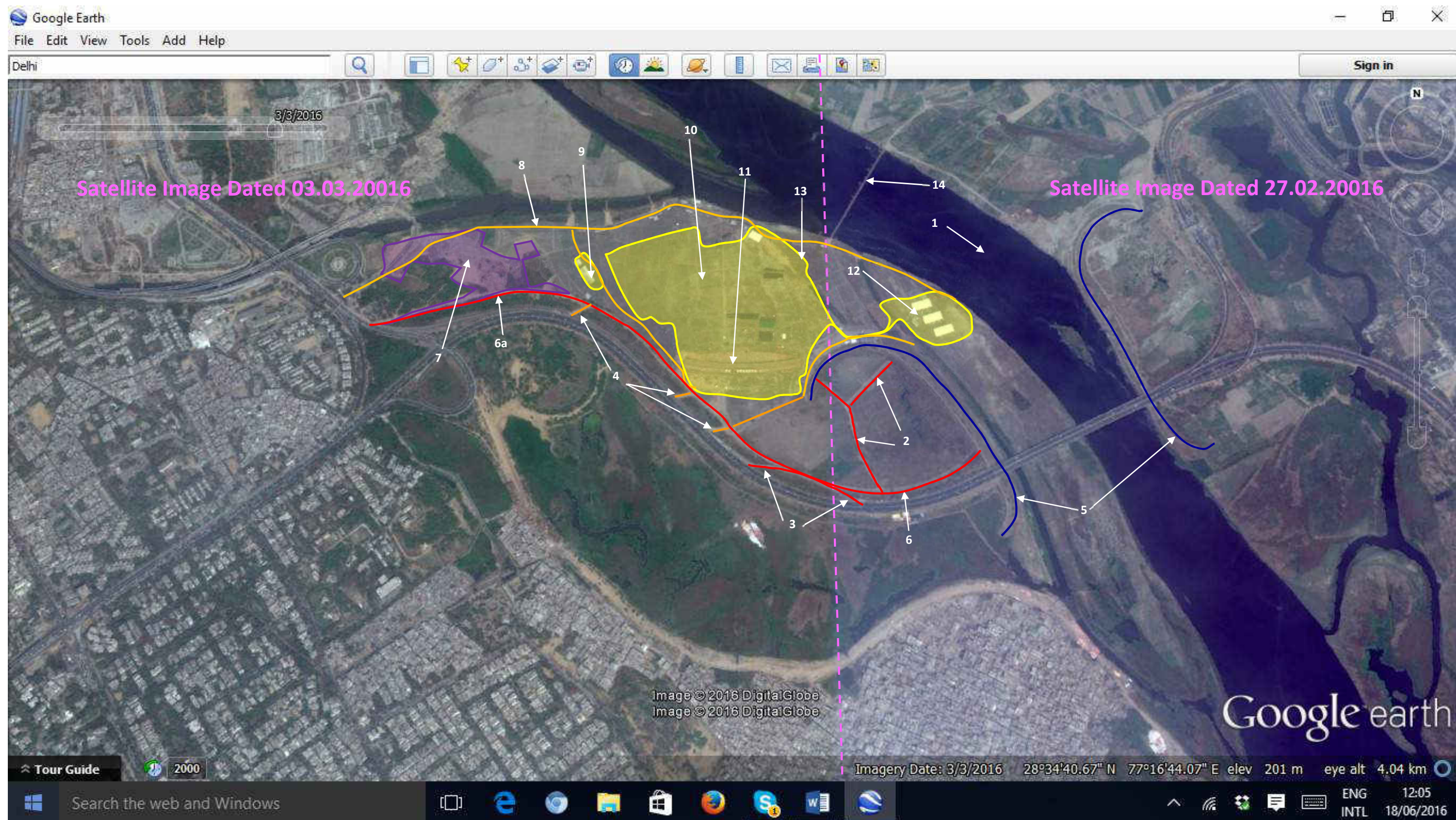
<b>Image dated 15/03/2016, depicting entire area utilised for the World Culture Festival 2016 event with all the temporary installations, which are clearly identifiable. For ease of identification, every temporary installation has been labelled as:</b>	
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6. & 6a. Gravelled road (also having patches of degenerating bituminous pavement towards eastern end) parallel to the DND flyway existing at least since year 2000; having lateral spurs approaching Guide Bank.	13. Modular toilet blocks
7. Area marked by  previously having mounts of Construction Waste and Solid Waste, which has been cleared for the WCF 2016 event.	14. Extent of the core area marked by  , which has been utilised for the stage; sitting arrangements; artist camps; modular toilet blocks; and emergency health care facilities etc.







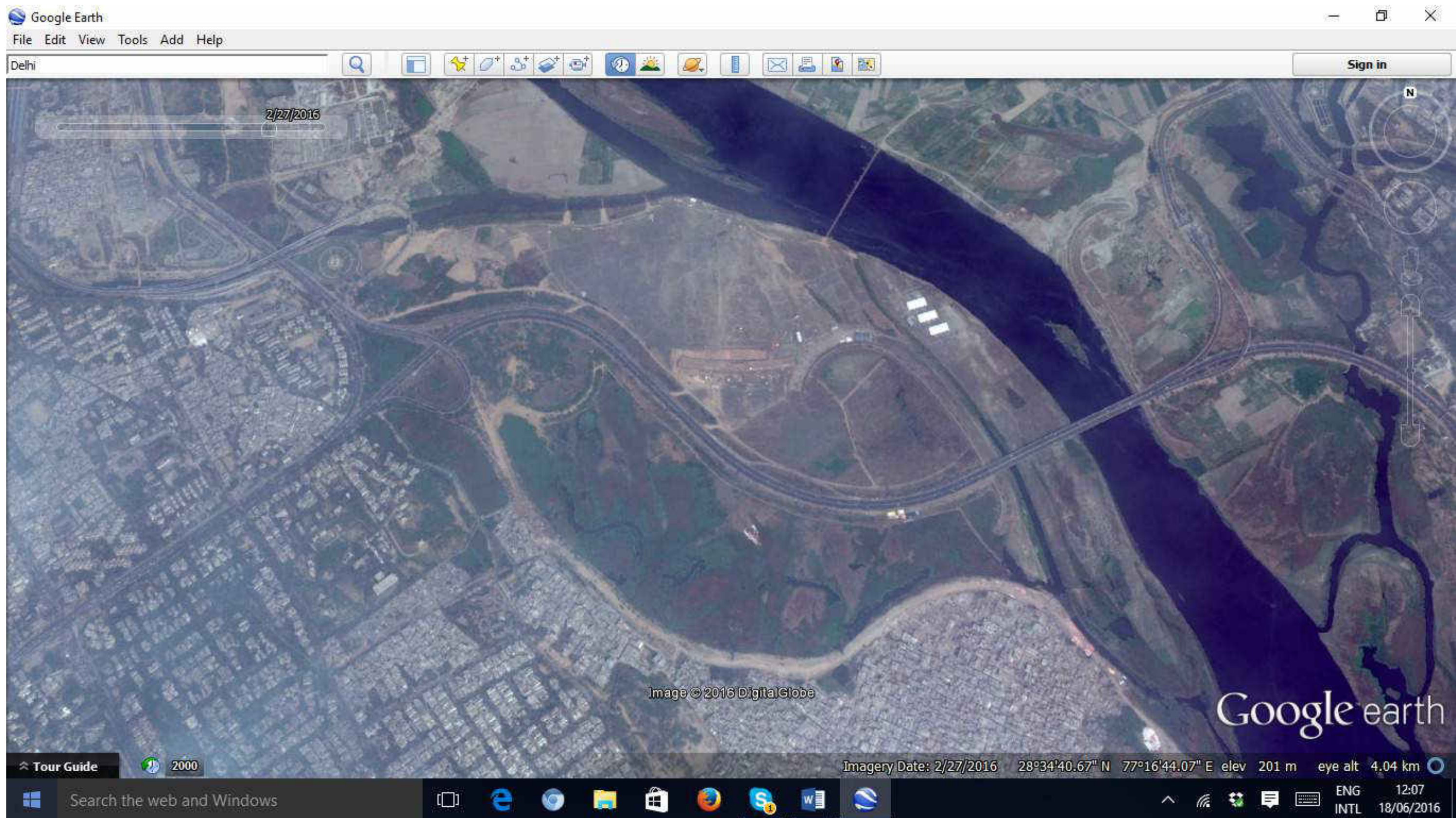
Screen shot of mosaic Image with western half dated 03/03/2016 and eastern half dated 27/02/2016 depicting entire area utilised for the World Culture Festival 2016 event (Preparation of the event in progress; stage scaffoldings under construction)





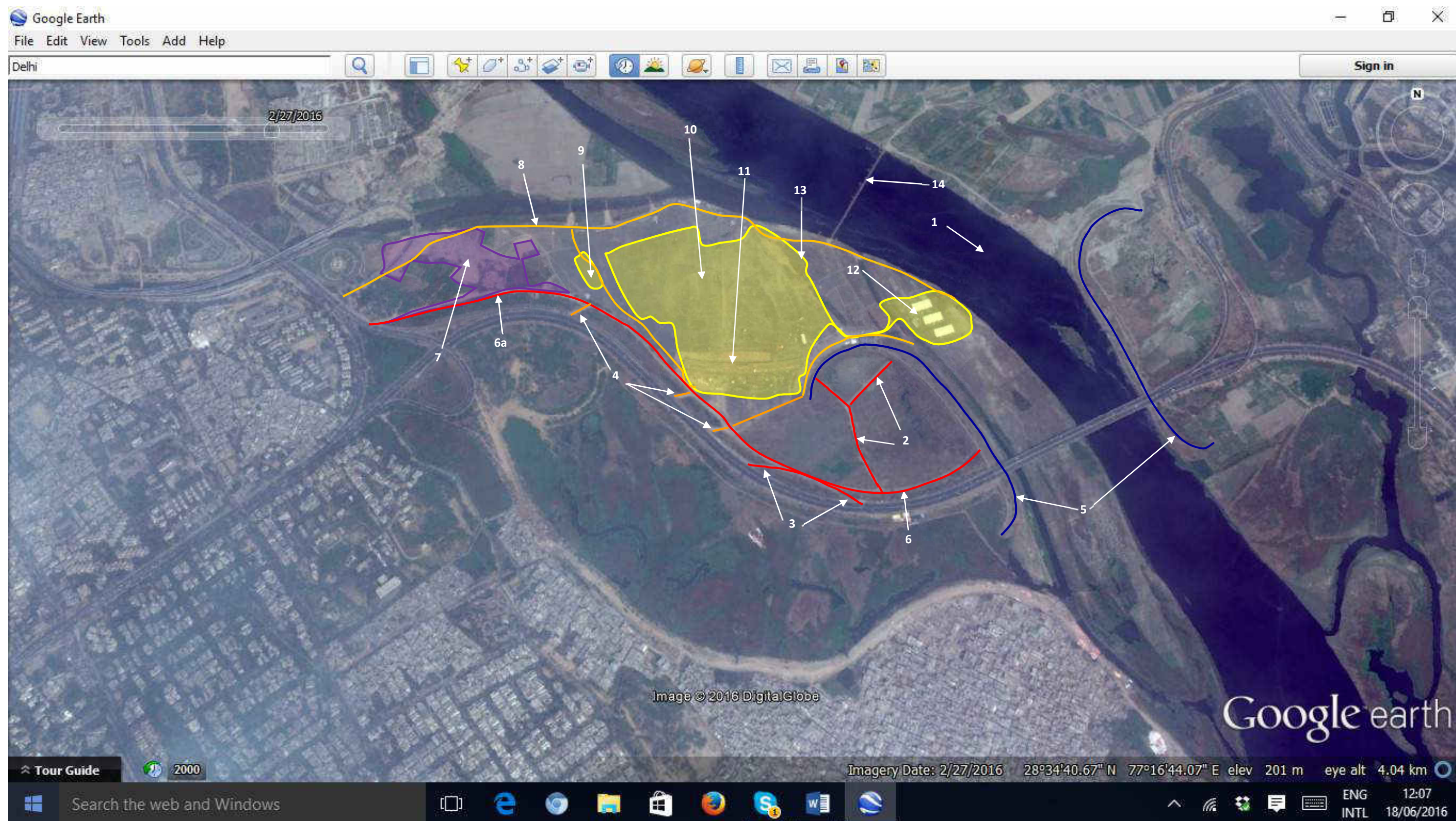
Mosaic Image with western half dated 03/03/2016 and eastern half dated 27/02/2016 depicting entire area utilised for the World Culture Festival 2016 event (Preparation of the event in progress; stage scaffoldings under construction):	
1. River Yamuna flowing as usual	8. Unpaved earthen road running parallel to Barapullah Drain, which is in existence at least since Year 2000, used for vehicles and earthmovers engaged in drain cleaning, sludge and silt removal in this section of Barapullah Drain.
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7. Area marked by  previously having mounts of construction waste and solid waste, which has been cleared for the WCF 2016 event.	14. First pontoon bridge under construction







Screen shot of satellite image dated 27/02/2016 depicting entire area utilised for the World Culture Festival 2016 event (Preparation for the event in progress; stage scaffoldings under construction; artist camp installed; first pontoon bridge constructed).





Satellite Image dated 27/02/2016 depicting entire area utilised for the World Culture Festival 2016 event (Preparation for the event in progress; stage scaffoldings under construction; artist camp installed; first pontoon bridge constructed):	
1. River Yamuna flowing as usual	8. Unpaved earthen road running parallel to Barapullah Drain, which is in existence at least since Year 2000, used for vehicles and earthmovers engaged in drain cleaning, sludge and silt removal in this section of Barapullah Drain.
2. Road on the floodplain linking the Guide Bank	9. Area used for modular toilet blocks during the three-day event
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7. Area marked by  previously having mounts of construction waste and solid waste, which has been cleared for the WCF 2016 event.	14. First pontoon bridge under construction.



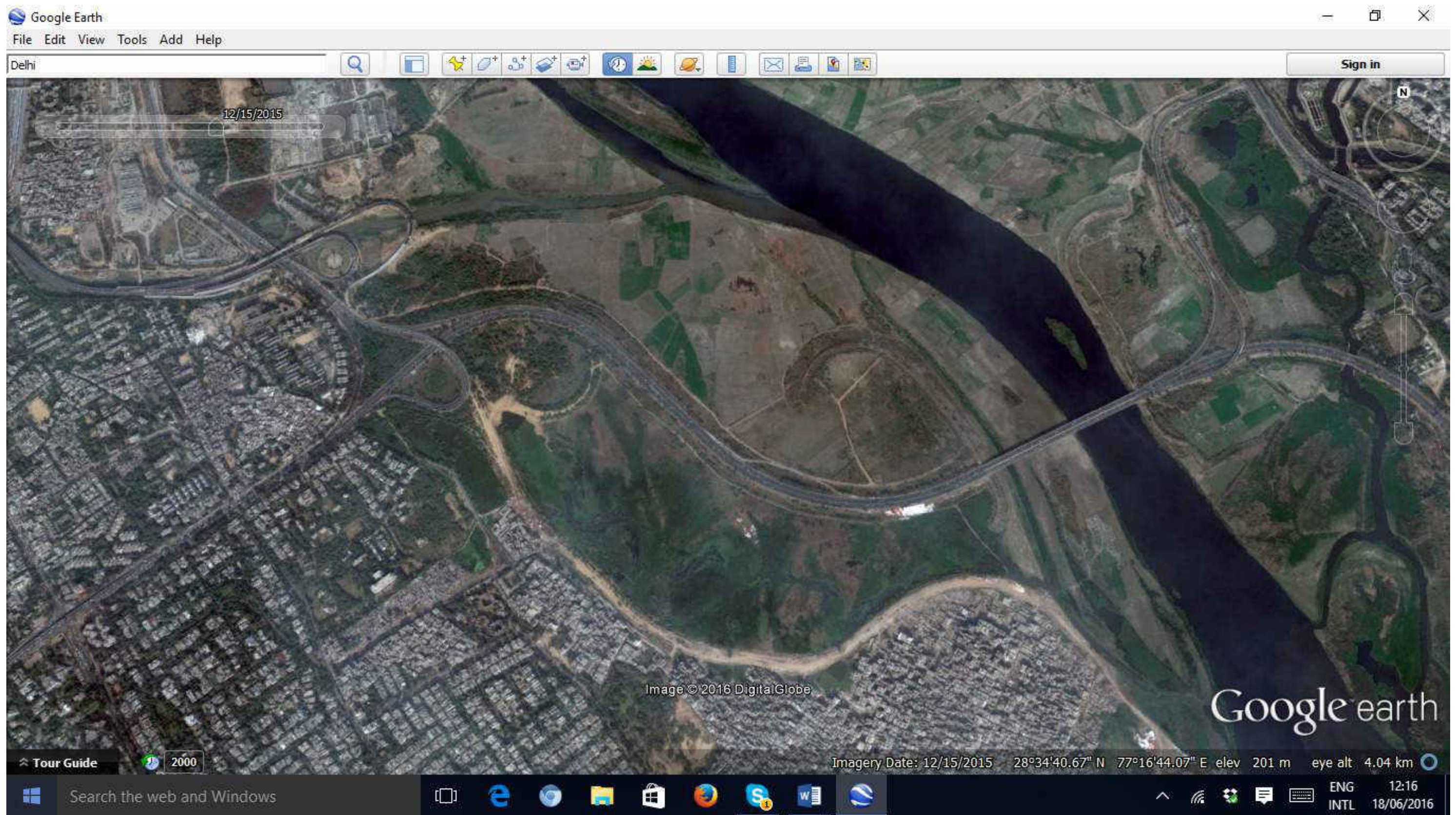
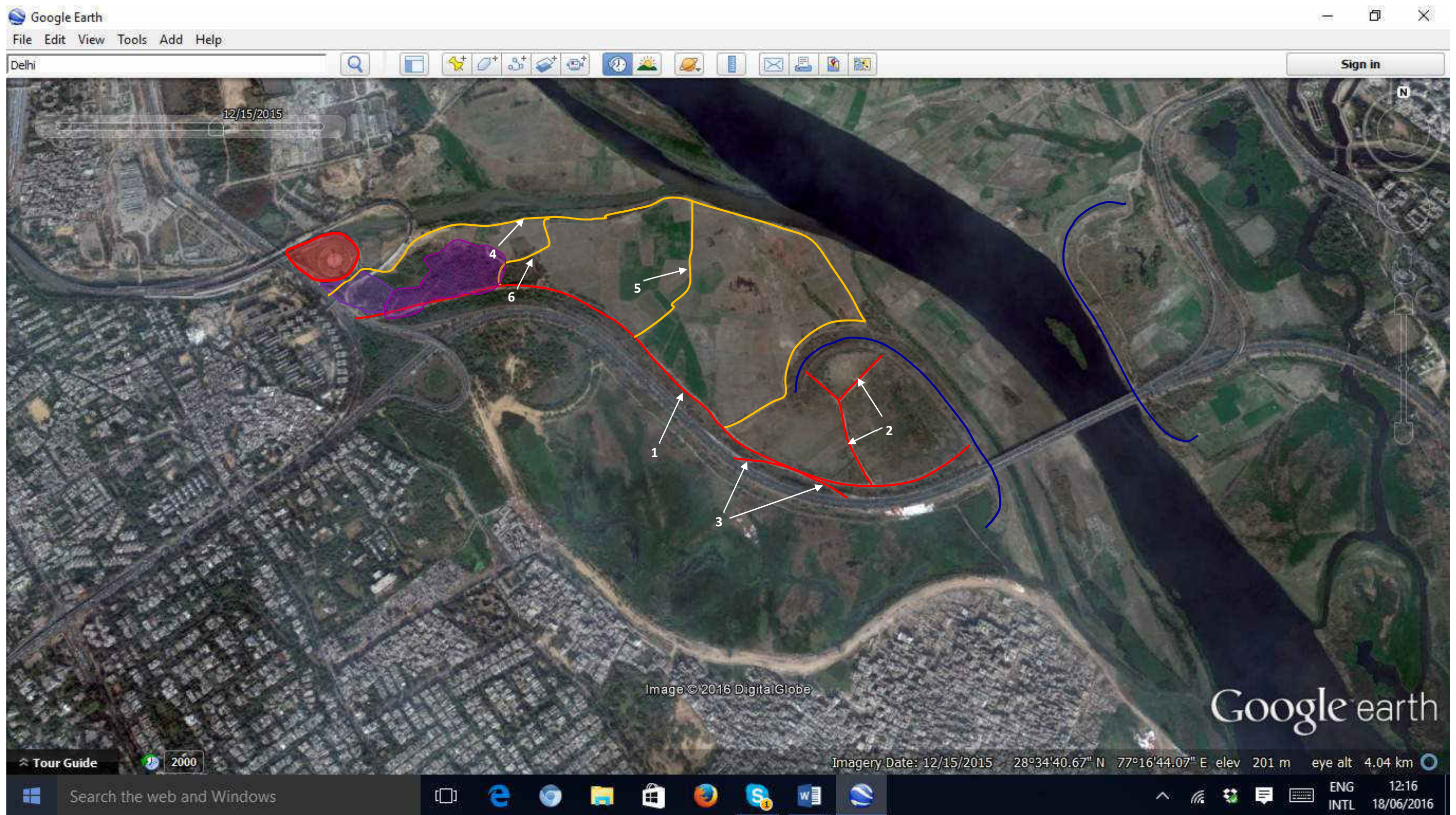


Image Date 15/12/2015 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Harrowed Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





**Image Date 15/12/2015 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Harrowed Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

Arrow Pointed Observation: (1) Gravel Road (Now Partially paved by bituminous Overlay) parallel to DND Flyway. This earthen road was initially constructed to facilitate construction of DND flyway; movement of earthmovers and construction vehicles etc. This road is in existence since then and is still in use for movement of farm equipment (tractors); construction industry vehicles like dumpers, loaders and trucks etc.

(2) Paved Road having fresh bituminous overlay facilitating approach to the guide bund used for annual maintenance works; inspection of guide bunds and occasionally used by farmers.

(3) Ramps with Bituminous Pavement linking DND Flyway and the Gravel Road (1).

(4) Unpaved Earthen Service Road used primarily by drain cleaning mobile equipment and earthmovers for removal of sludge from Barapullah drain.

(5) & (6) Earthen Trails marked by movement of earthmovers; dumpers and tractors moving on this land parcel.

Stabilised heaps of unsolicited dumps of construction debris; Fresh dumps of construction debris; Sun Dial;





**Image Date 15/12/2015 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Harrowed Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

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Stabilised heaps of unsolicited dumps of construction debris; Fresh dumps of construction debris; Sun Dial;

Area used for World Culture Festival 2016 of Art of Living Foundation/Vyakti Vikash Kendra.



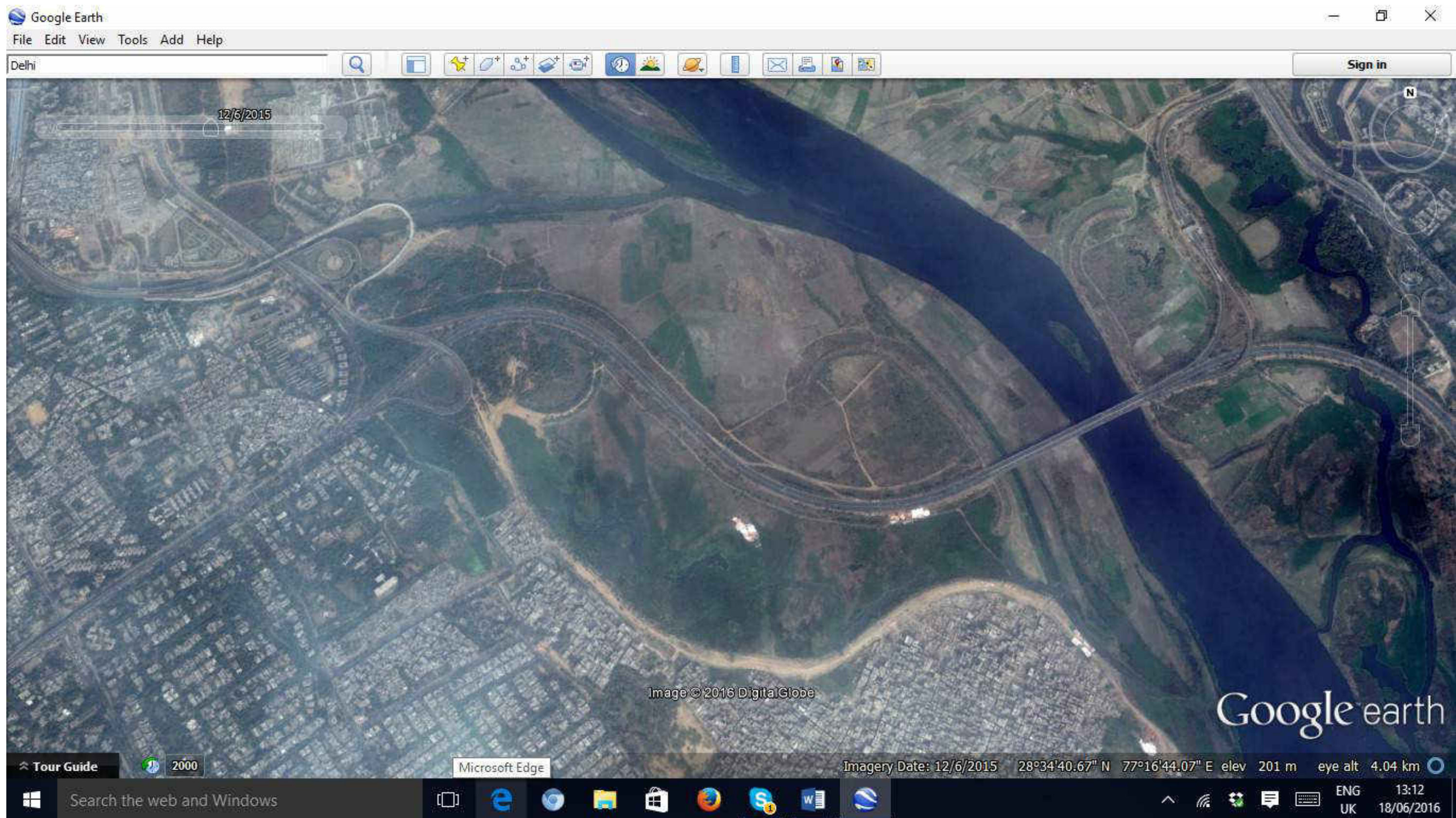
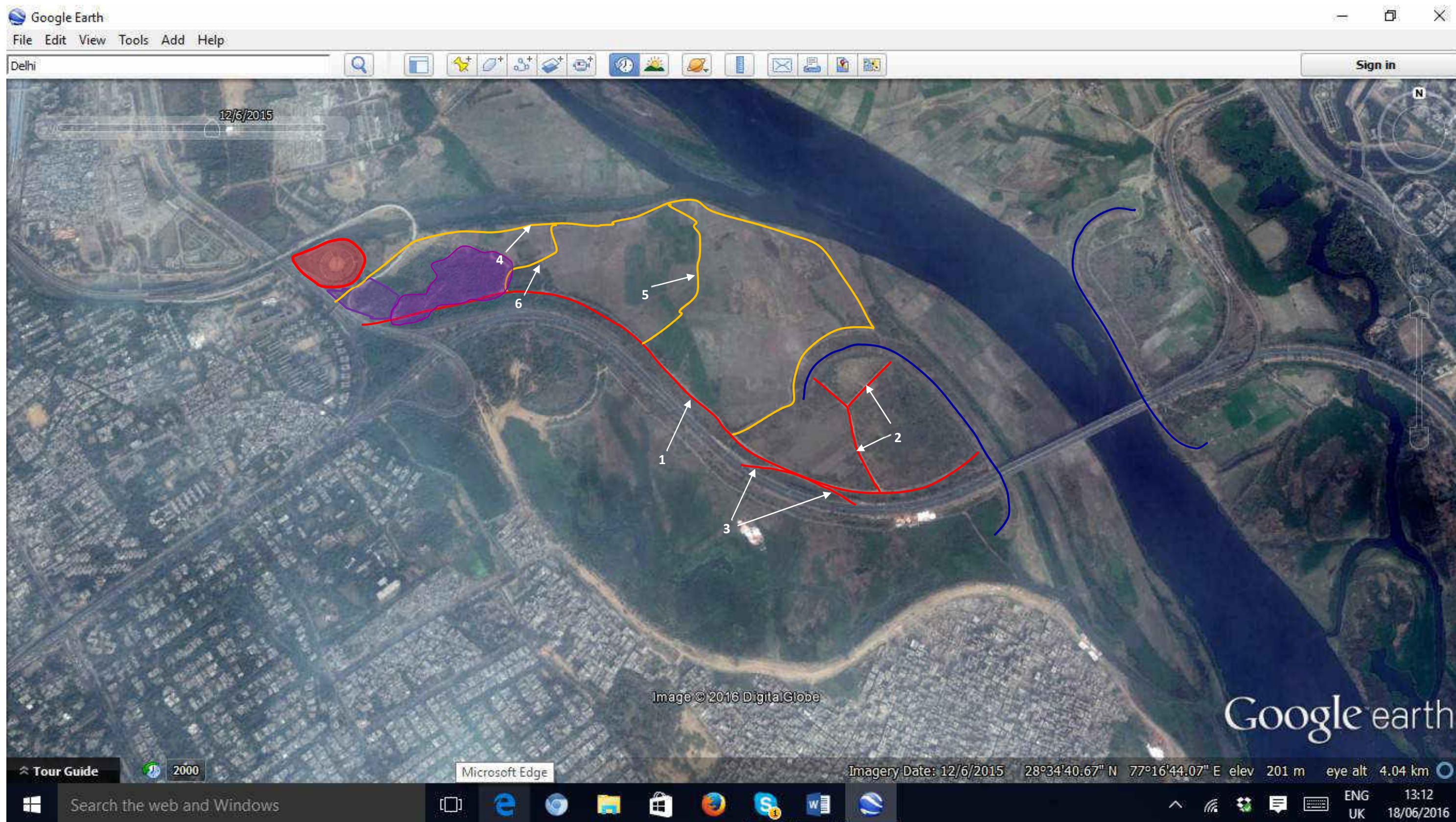


Image Date 06/12/2015 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Harrowed Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





**Image Date 06/12/2015 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Harrowed Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

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(2) Paved Road having fresh bituminous overlay facilitating approach to the guide bund used for annual maintenance works; inspection of guide bunds and occasionally used by farmers.

(3) Ramps with Bituminous Pavement linking DND Flyway and the Gravel Road (1).

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(5) & (6) Earthen Trails marked by movement of earthmovers; dumpers and tractors moving on this land parcel.

Stabilised heaps of unsolicited dumps of construction debris; Fresh dumps of construction debris; Sun Dial;





**Image Date 06/12/2015 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Harrowed Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

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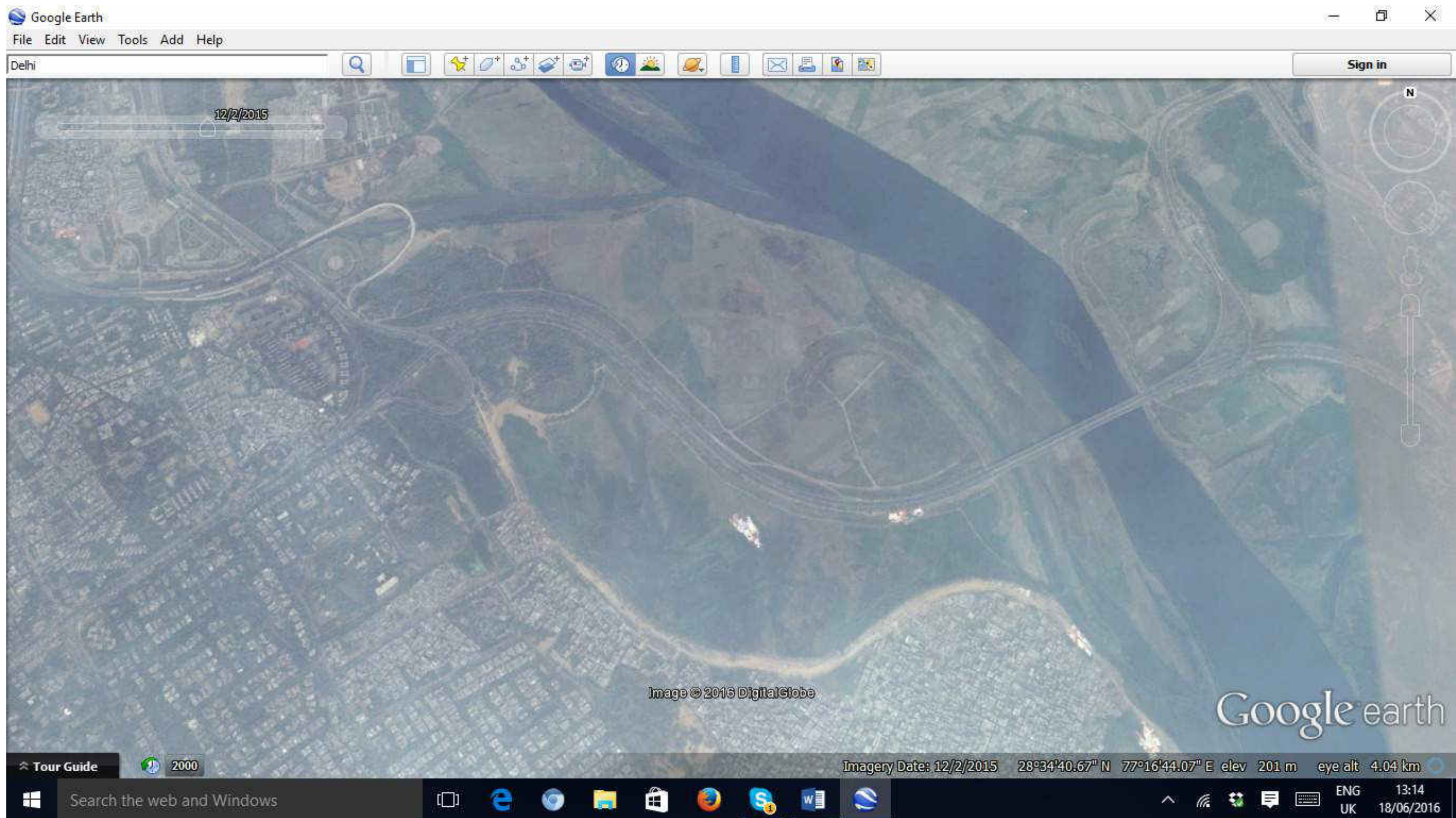
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(5) & (6) Earthen Trails marked by movement of earthmovers; dumpers and tractors moving on this land parcel.

Stabilised heaps of unsolicited dumps of construction debris; Fresh dumps of construction debris; Sun Dial;

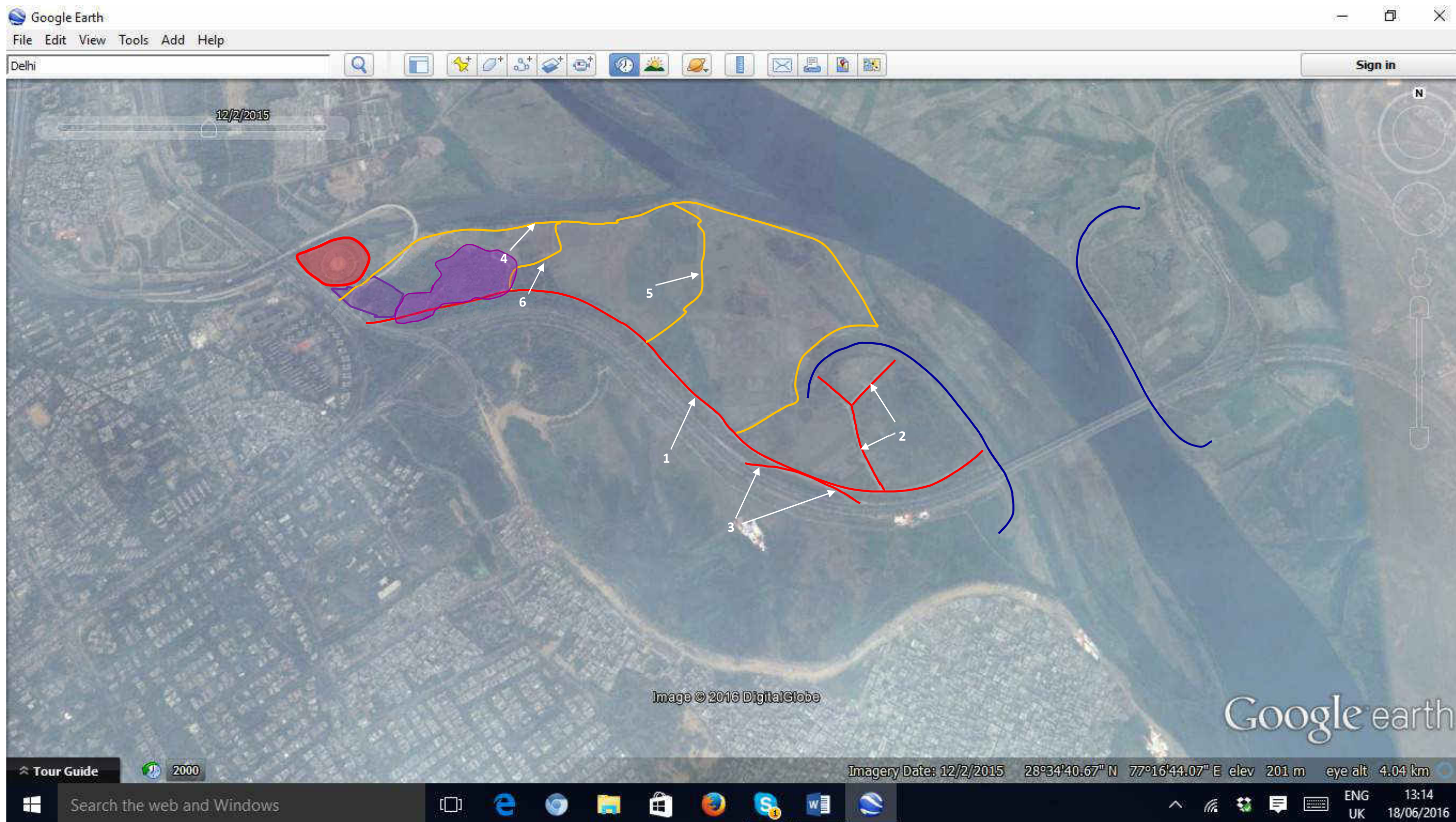
Area used for World Culture Festival 2016 of Art of Living Foundation/Vyakti Vikash Kendra.





Screen Shot of Image Dated 02/12/2015 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Harrowed Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





**Image Date 02/12/2015 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Harrowed Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

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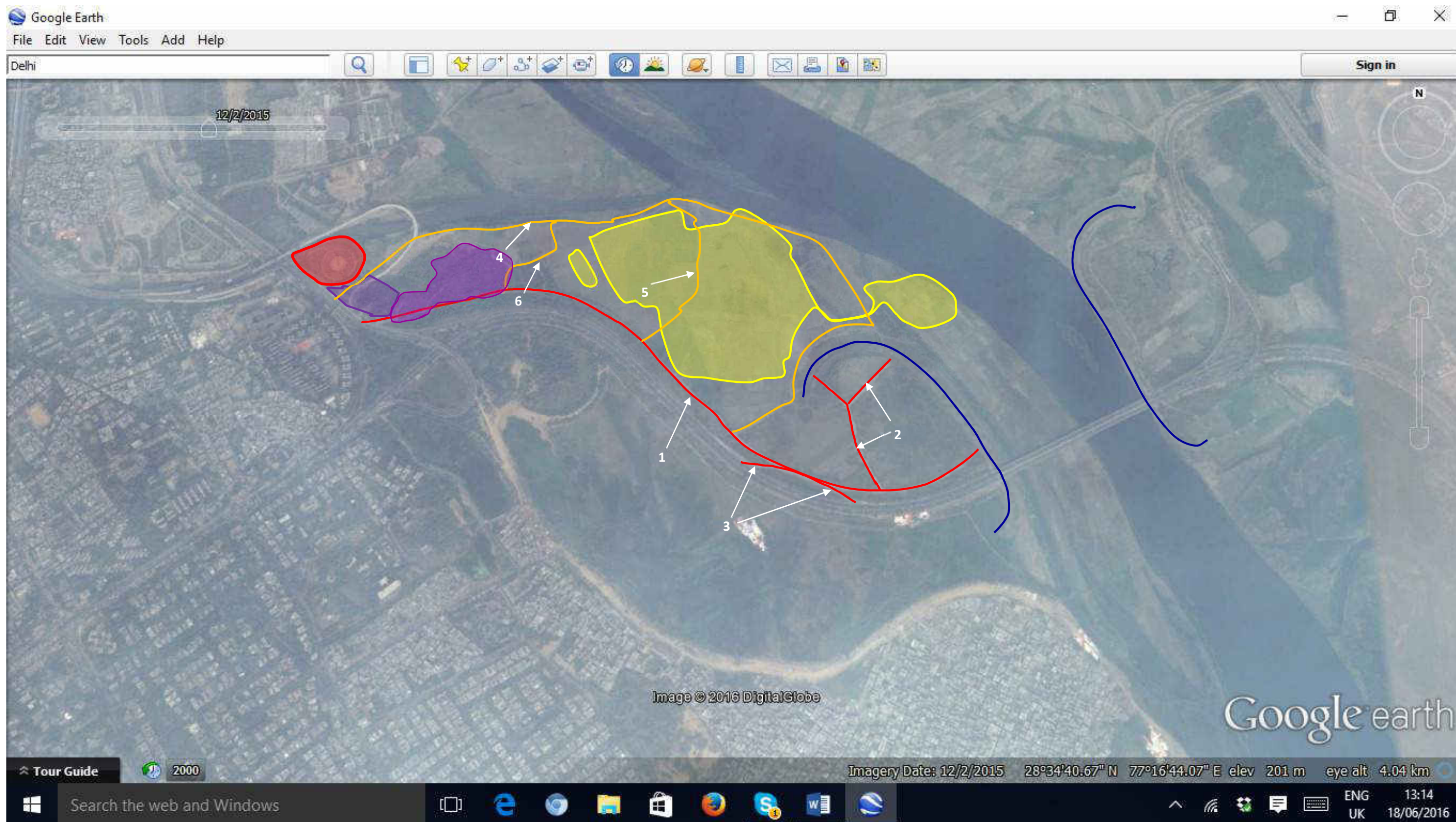
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Stabilised heaps of unsolicited dumps of construction debris; Fresh dumps of construction debris; Sun Dial;





**Image Date 02/12/2015 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Harrowed Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

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(3) Ramps with Bituminous Pavement linking DND Flyway and the Gravel Road (1).

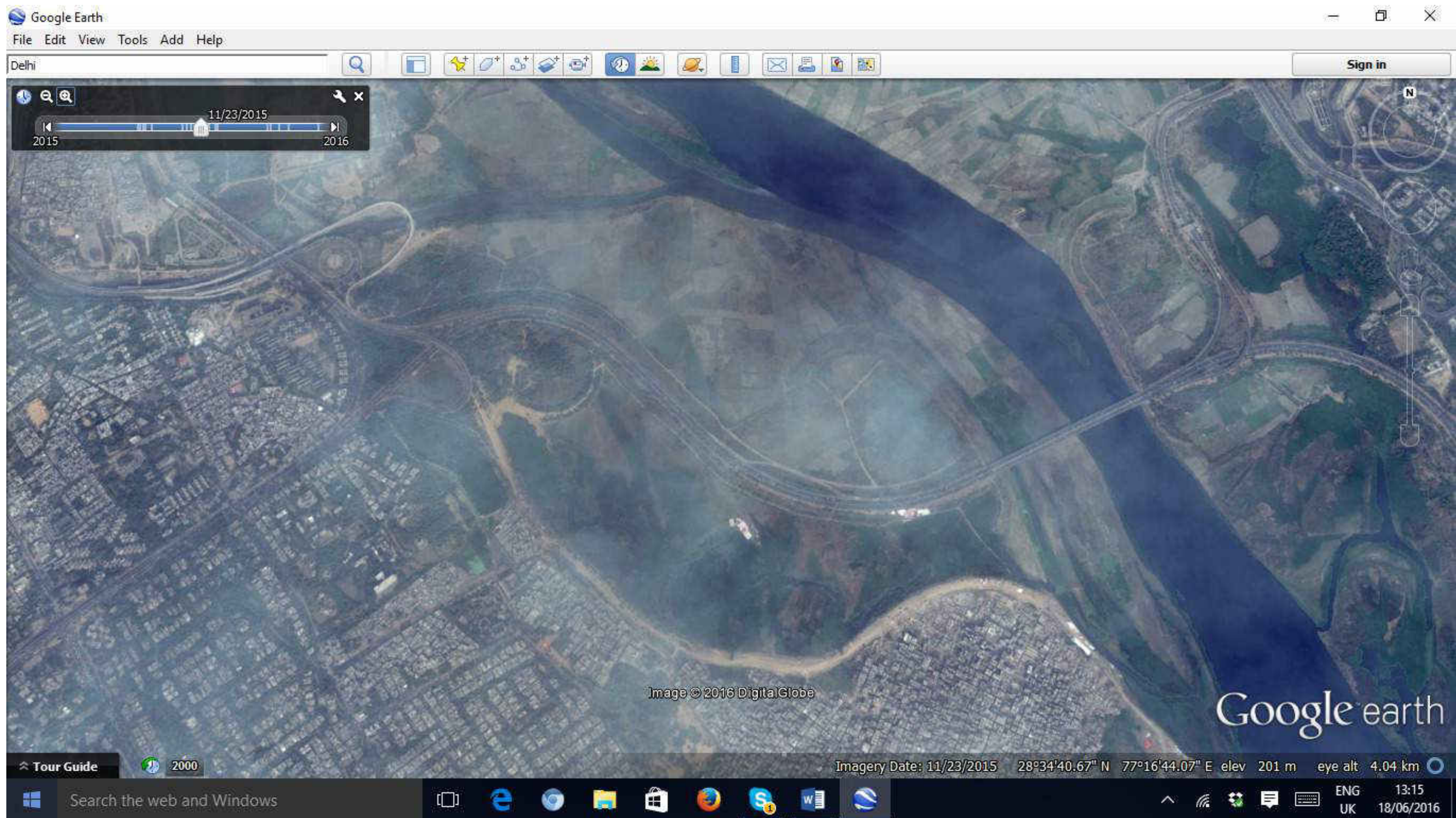
(4) Unpaved Earthen Service Road used primarily by drain cleaning mobile equipment and earthmovers for removal of sludge from Barapullah drain.

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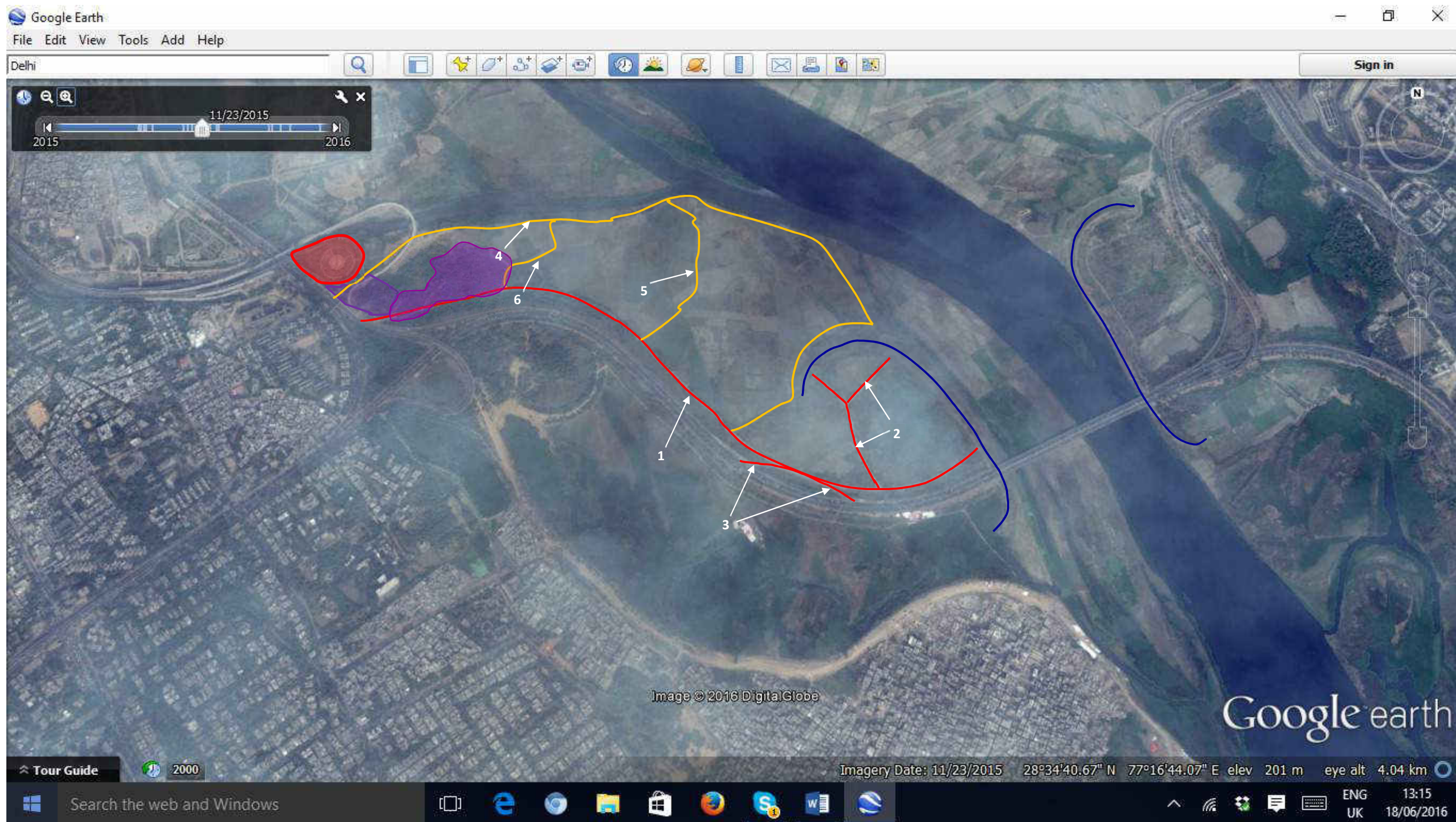
Area used for World Culture Festival 2016 of Art of Living Foundation/Vyakti Vikash Kendra.





Screen Shot Image Dated 23/11/2015 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Harrowed Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





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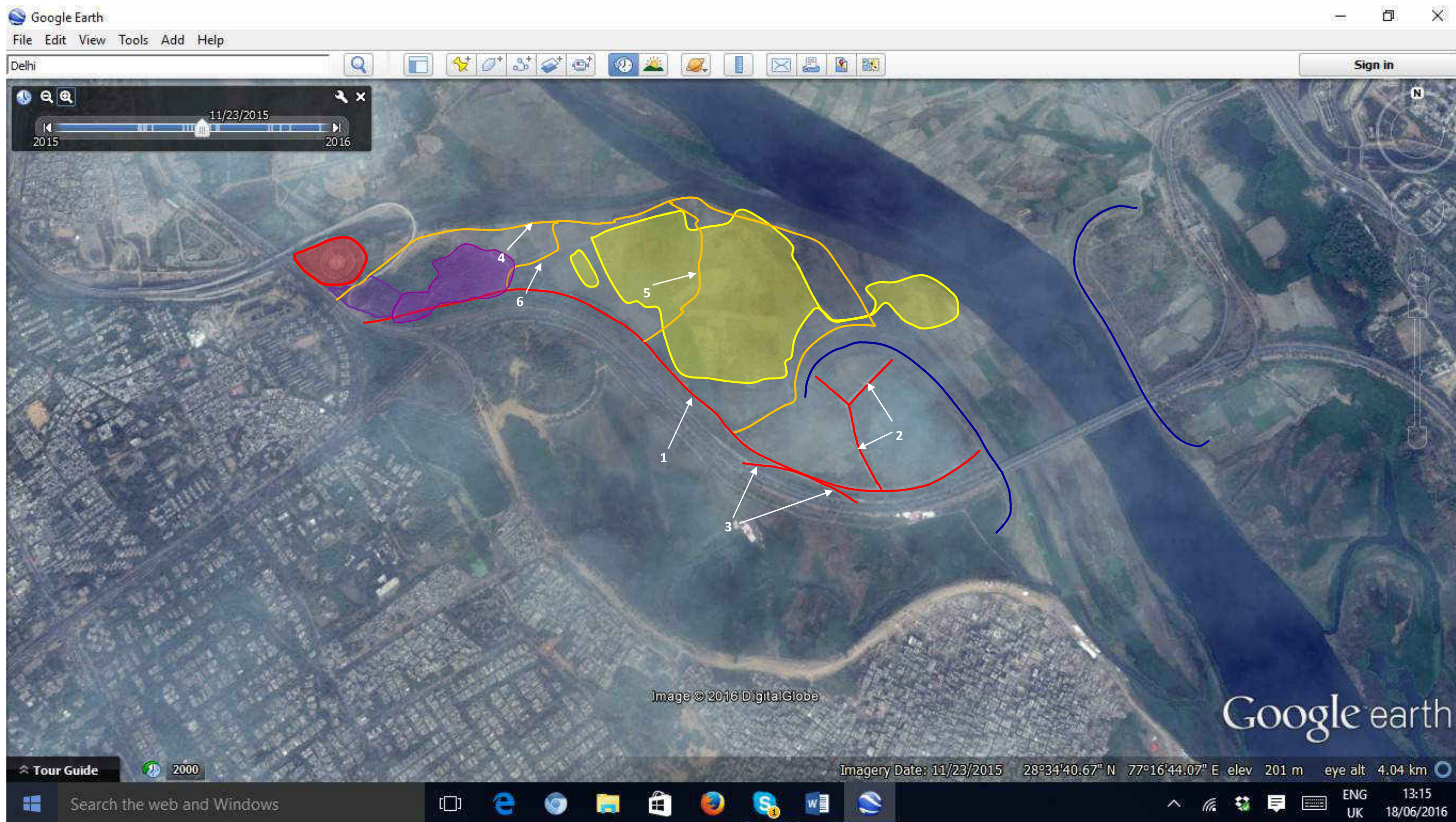
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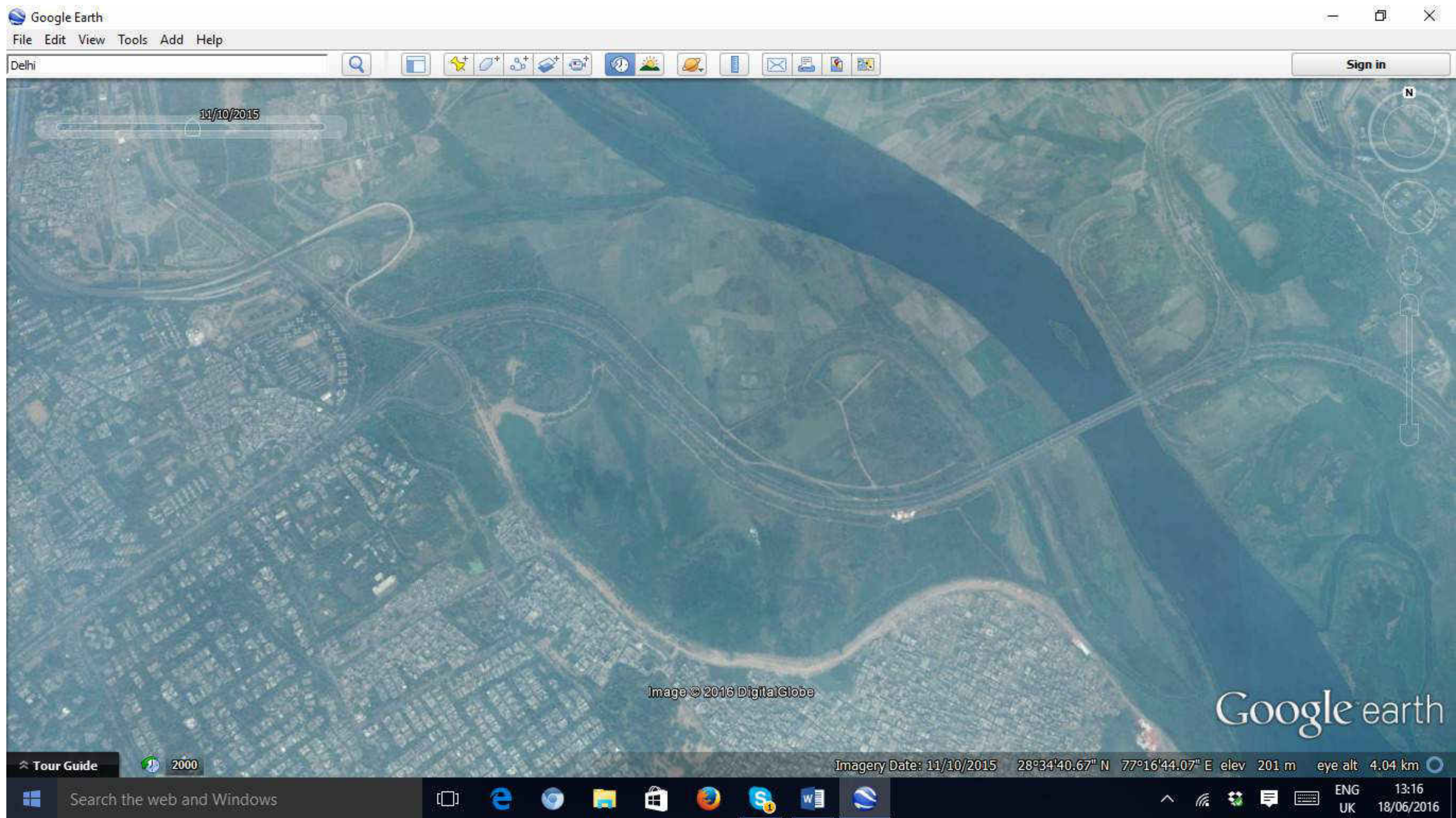
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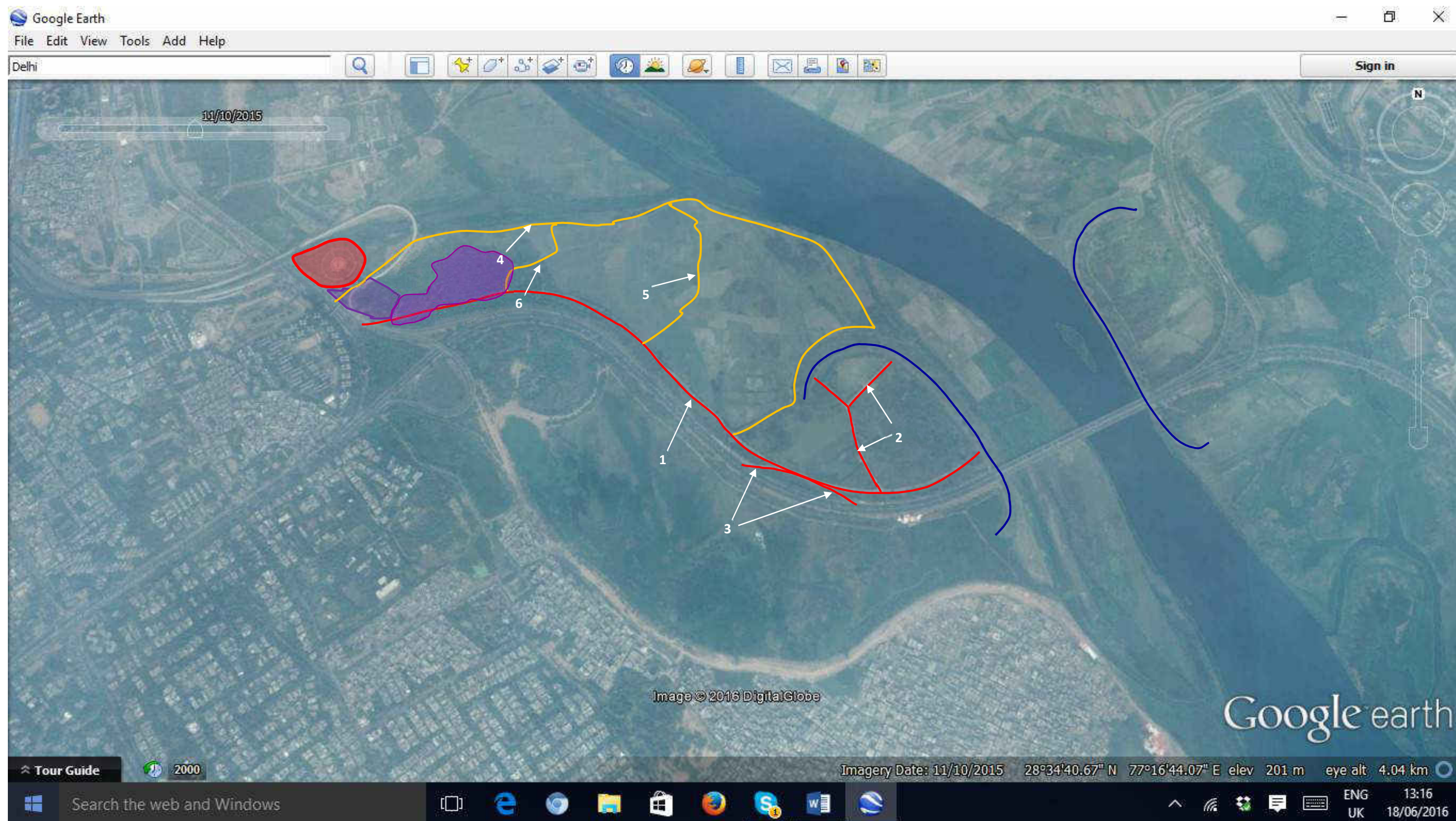
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Screen Shot Image Dated 10/11/2015 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Harrowed Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





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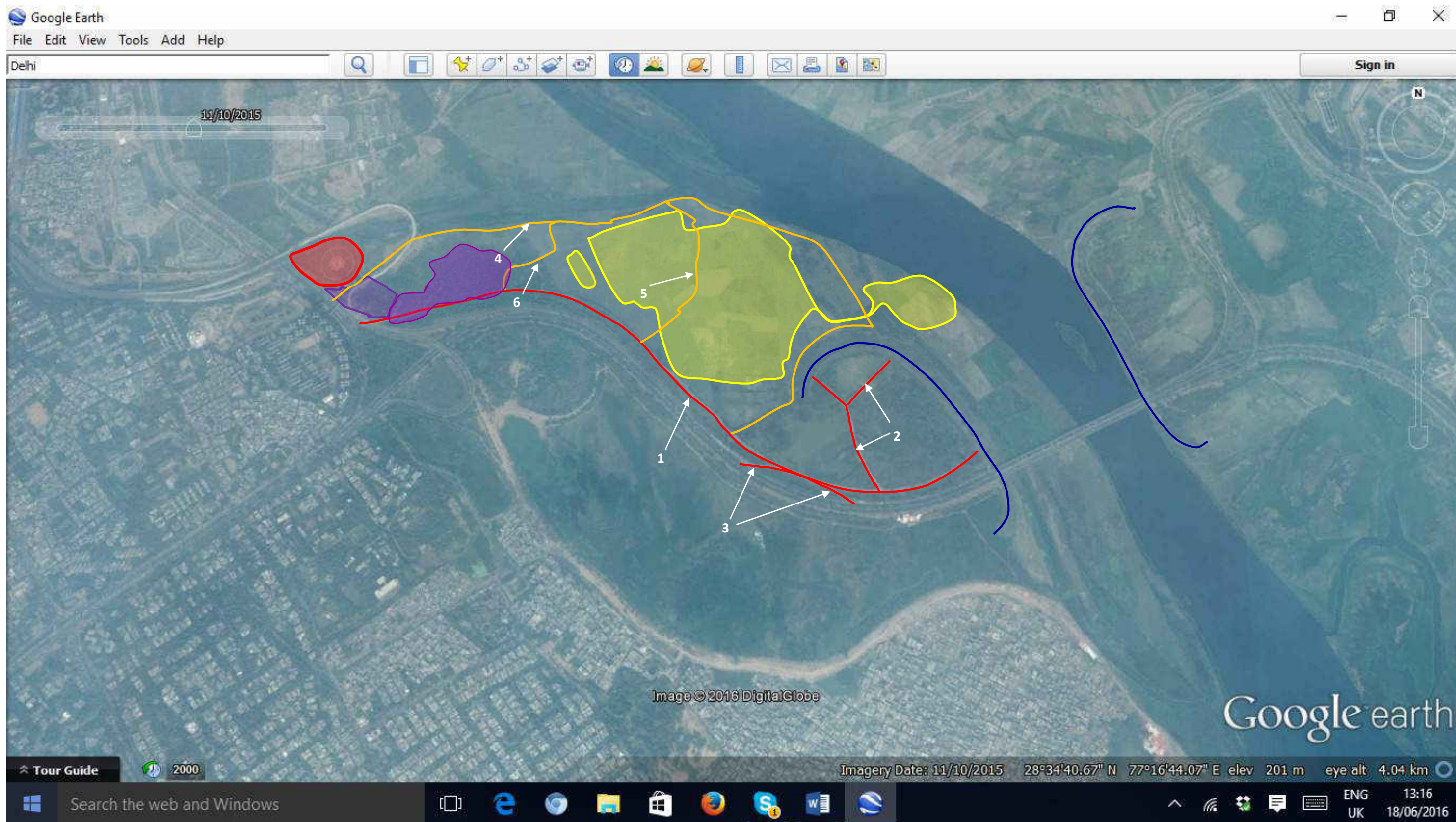
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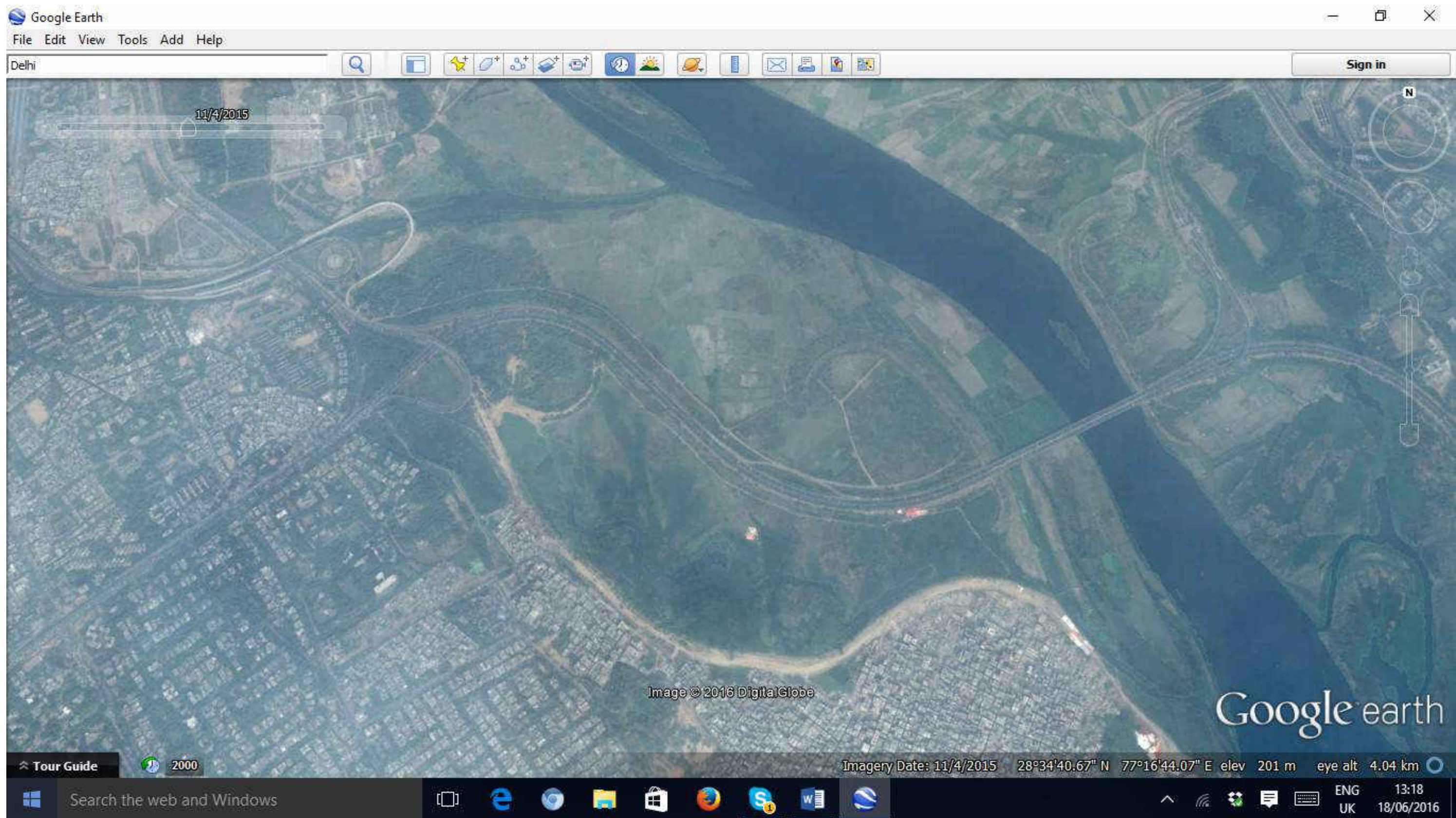
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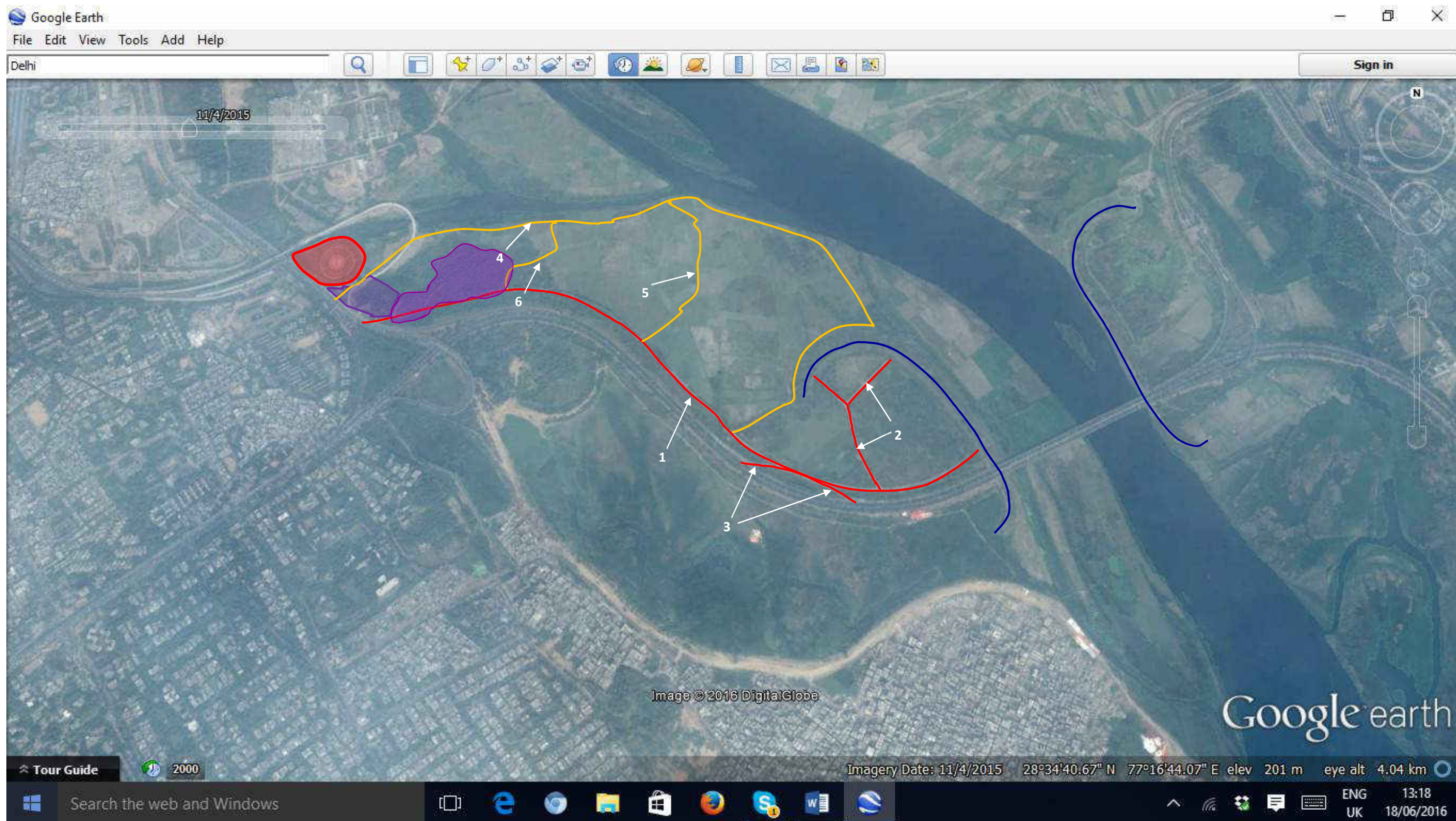
Area used for World Culture Festival 2016 of Art of Living Foundation/Vyakti Vikash Kendra.





Screen Shot Image Dated 04/11/2015 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Harrowed Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





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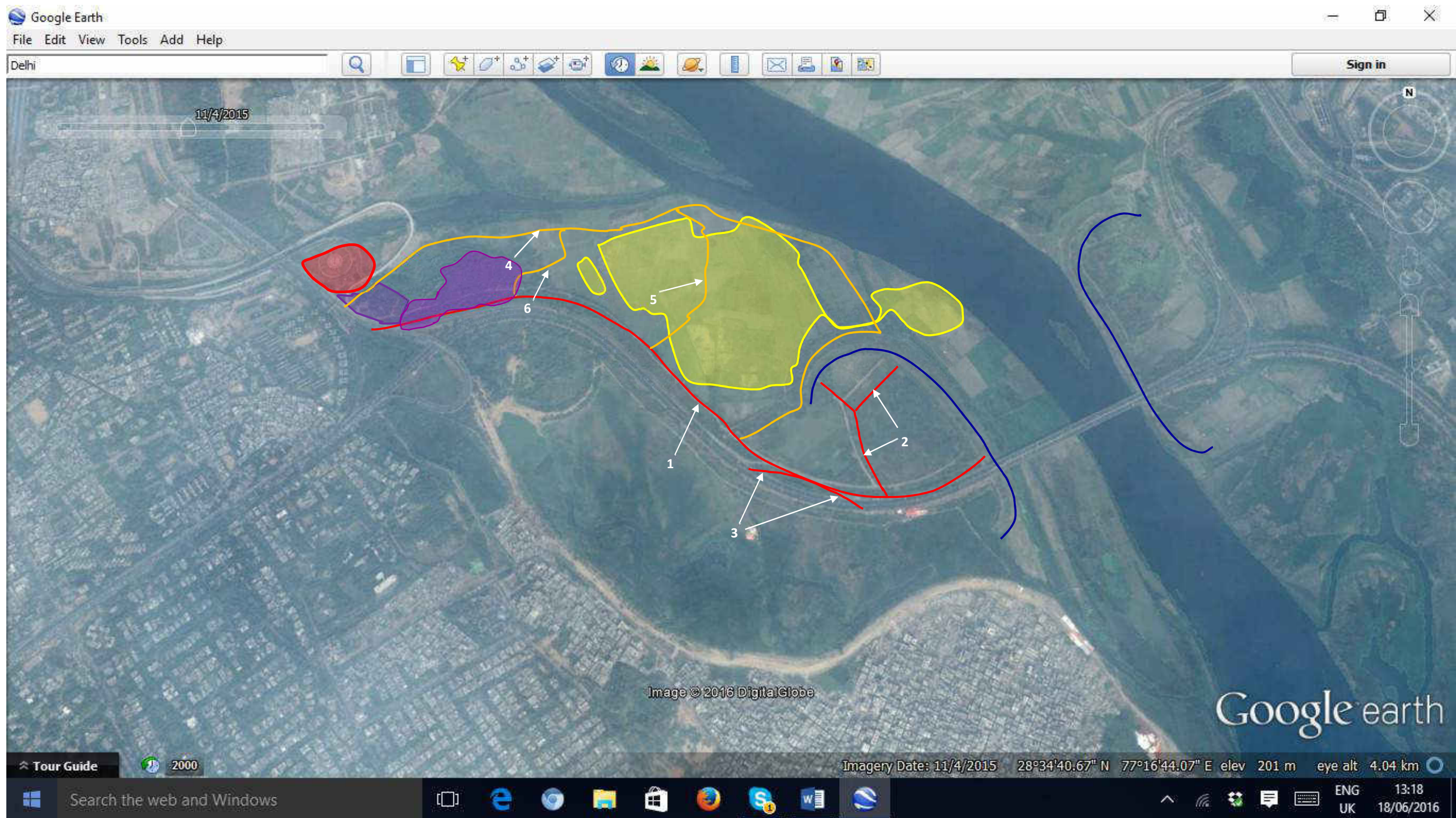
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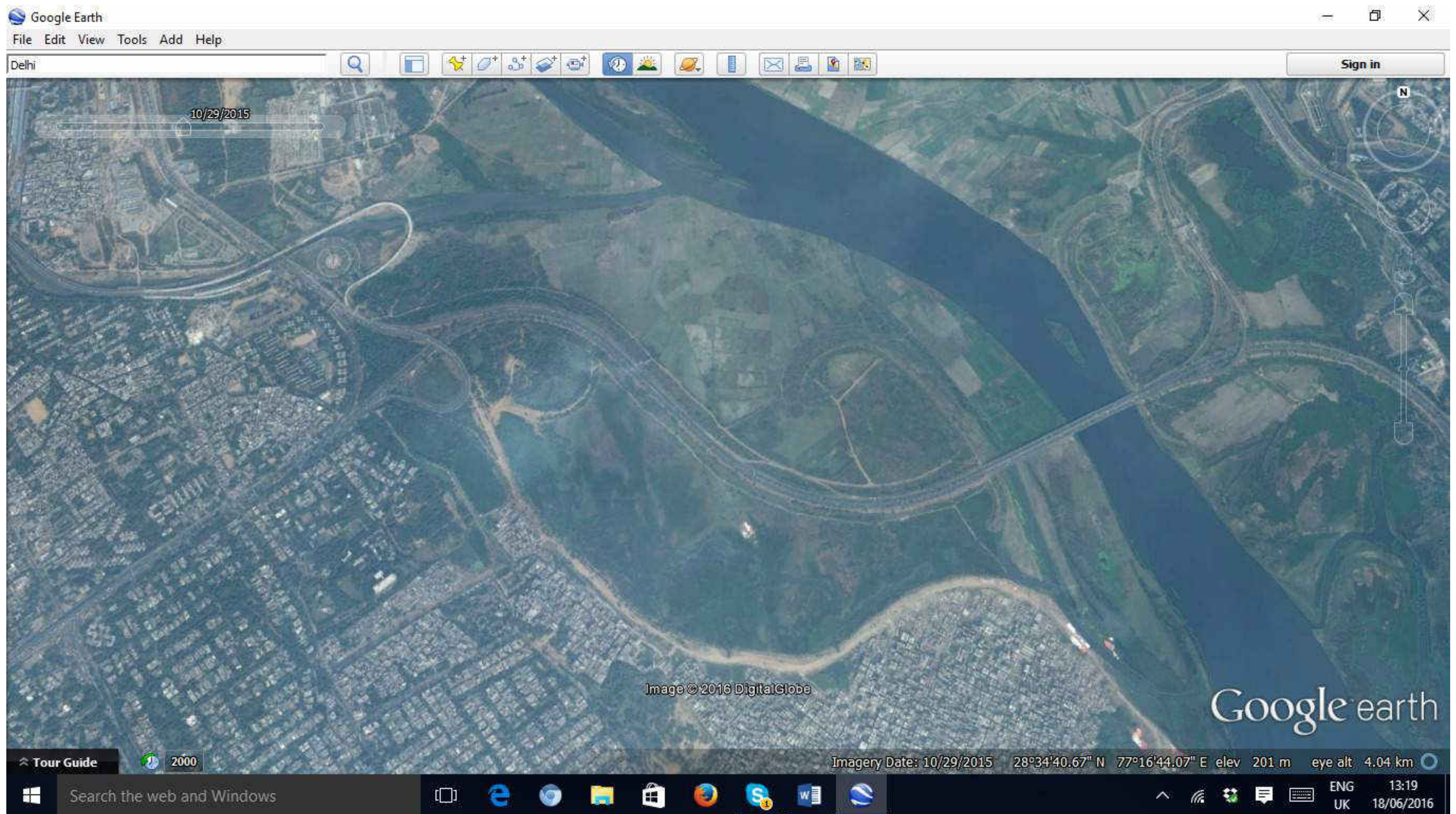
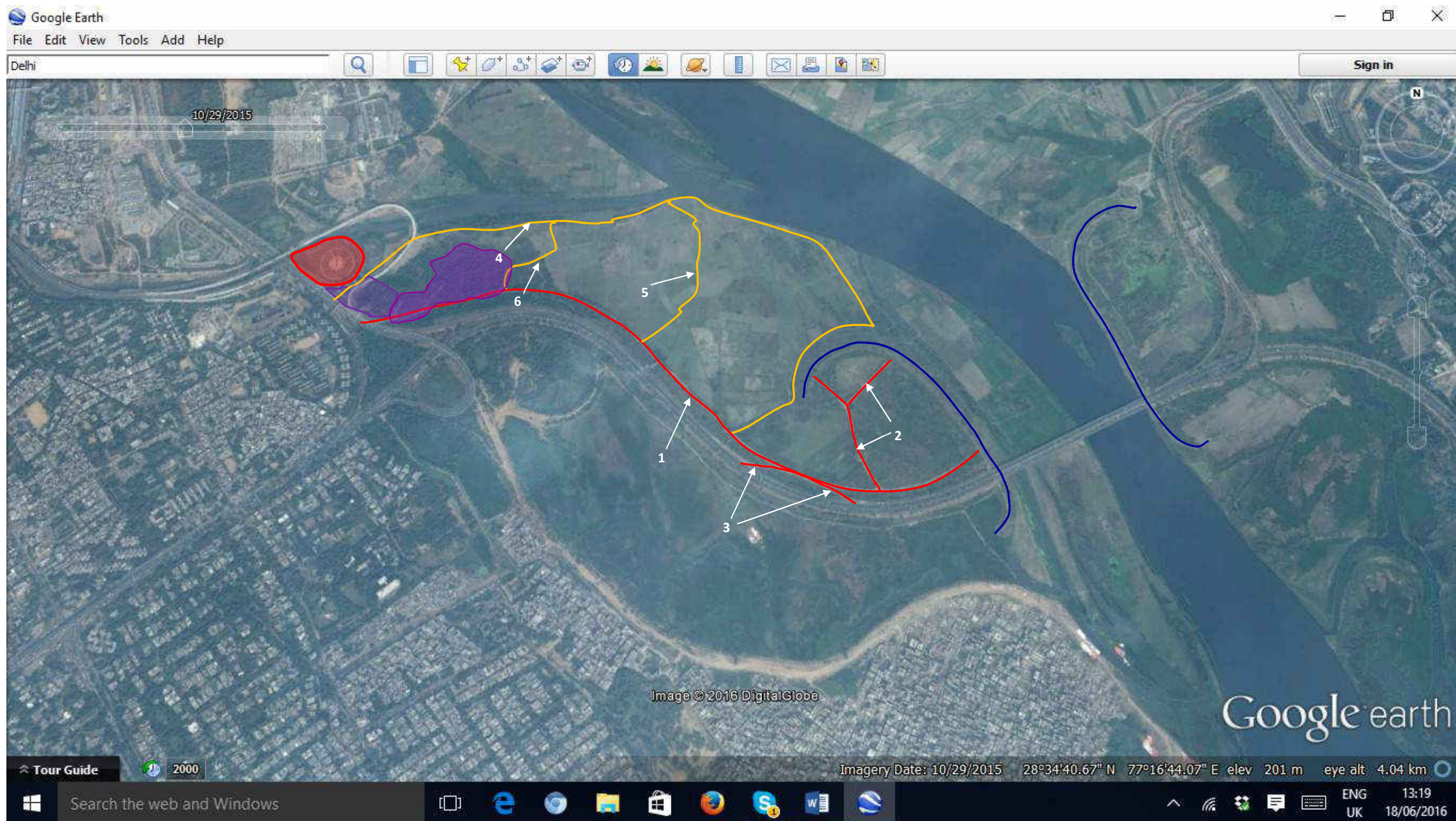


Image Dated 29/10/2015 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Harrowed Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





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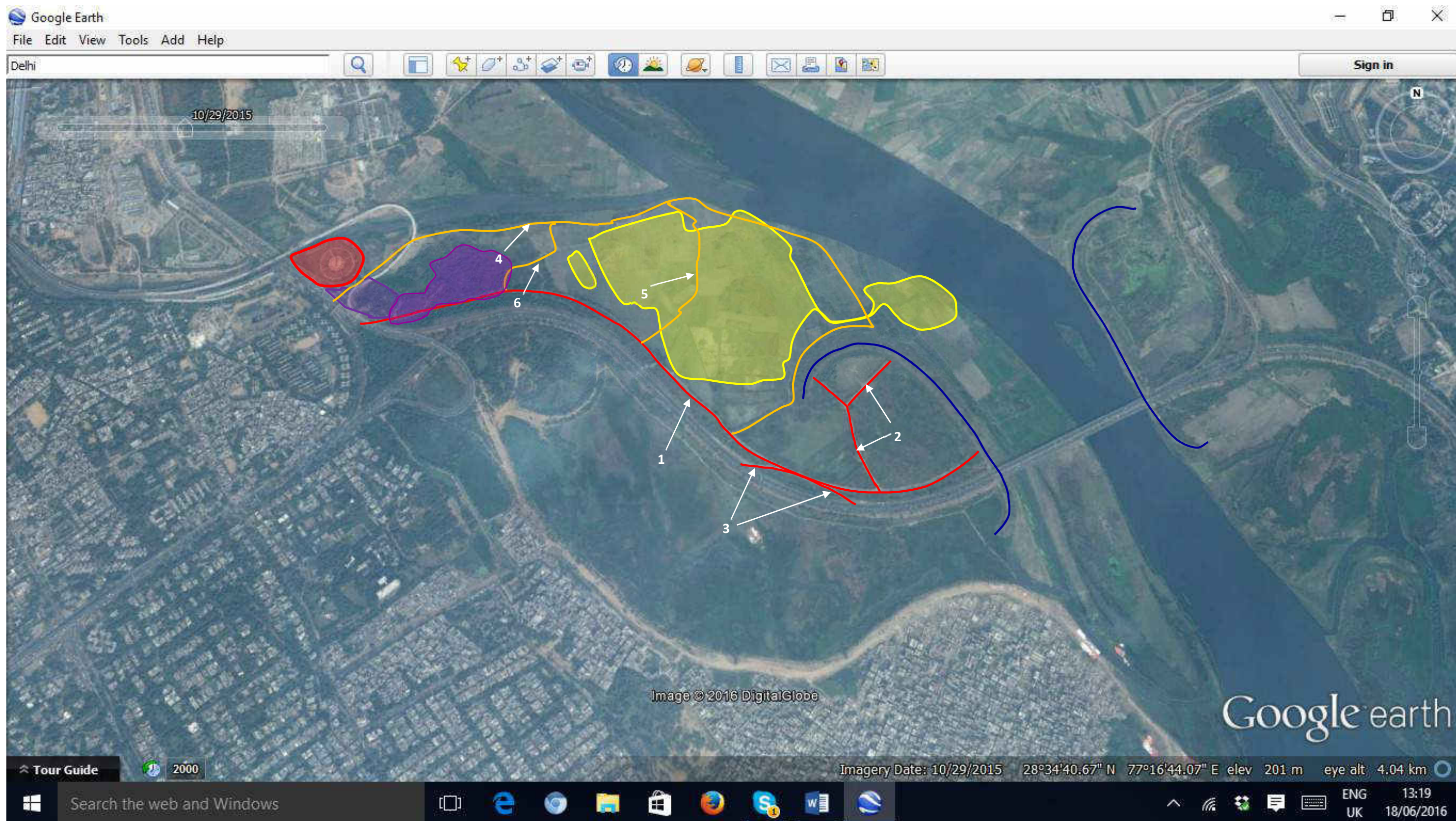
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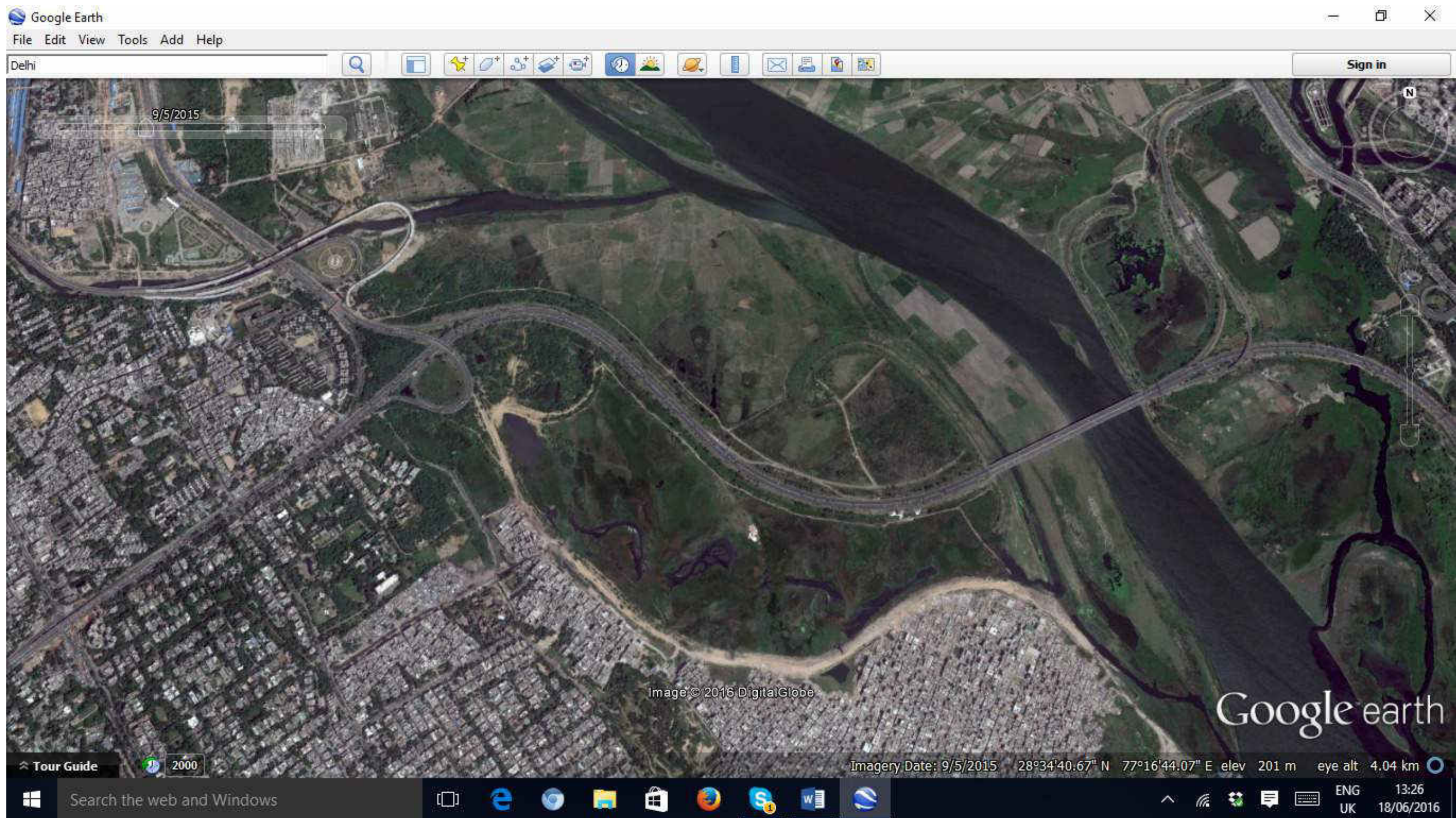
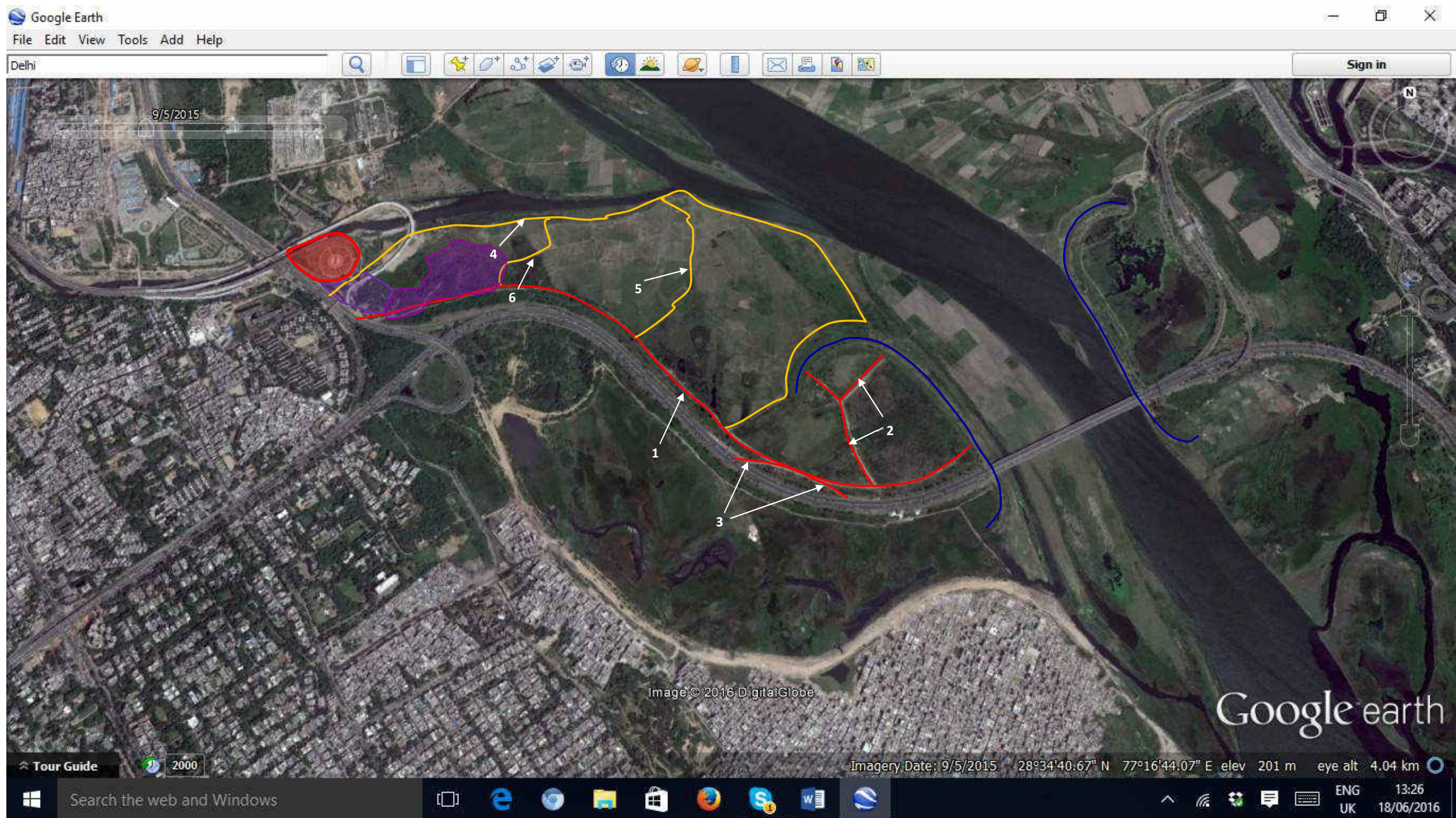


Image Date 05/09/2015 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Harrowed Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





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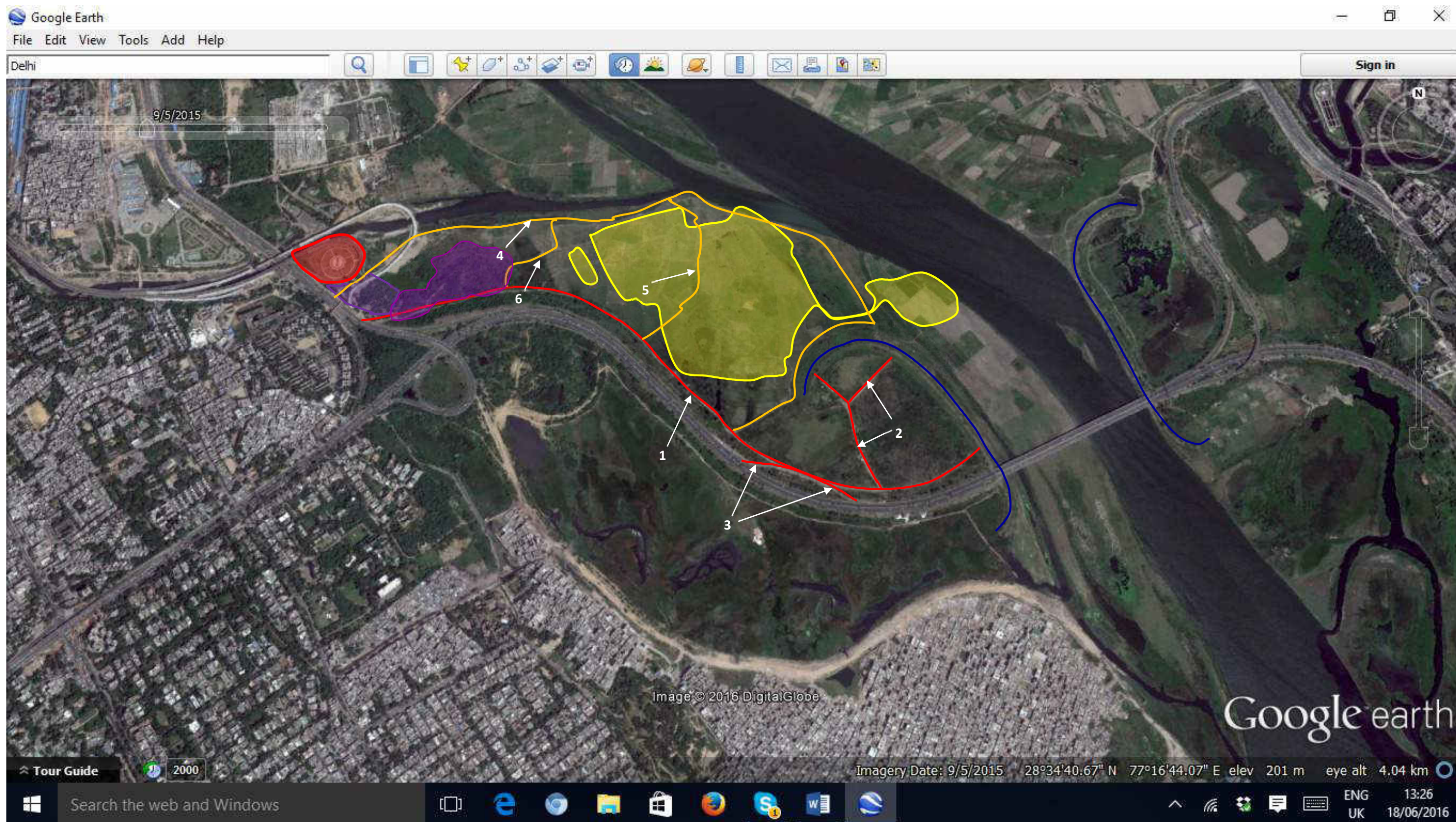
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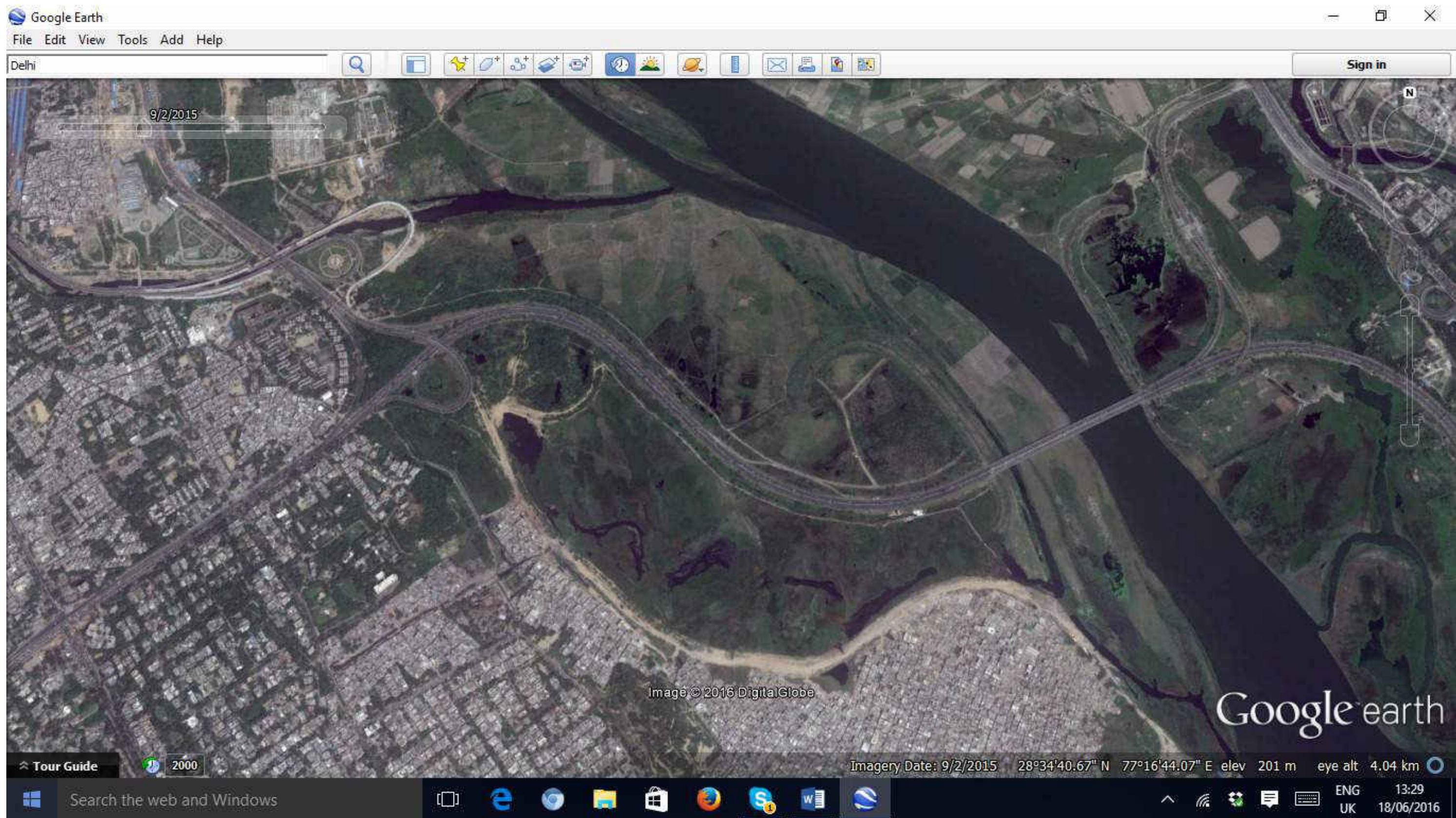
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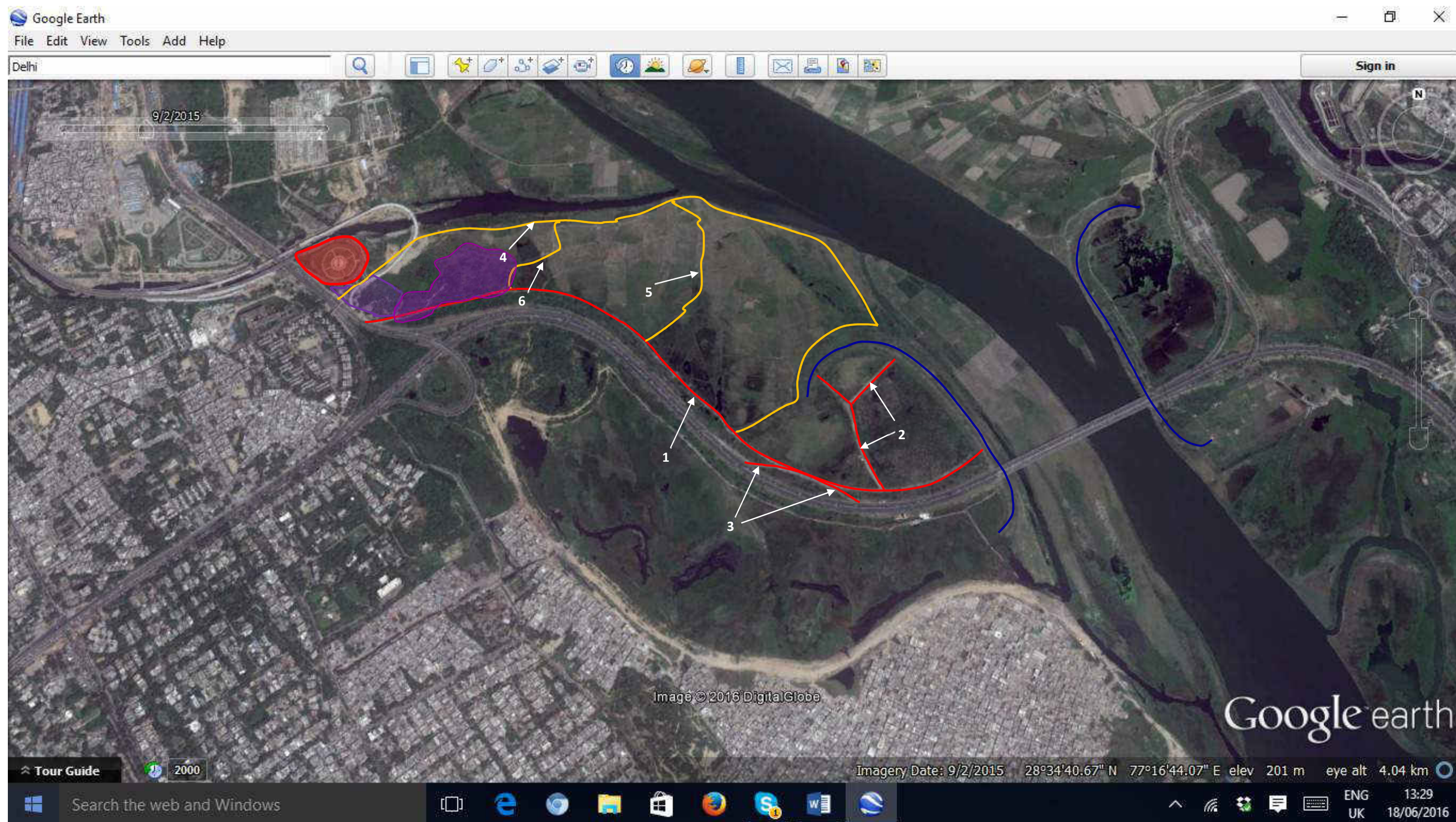
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Screen Shot of Satellite Image Dated 02/09/2015 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Harrowed Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





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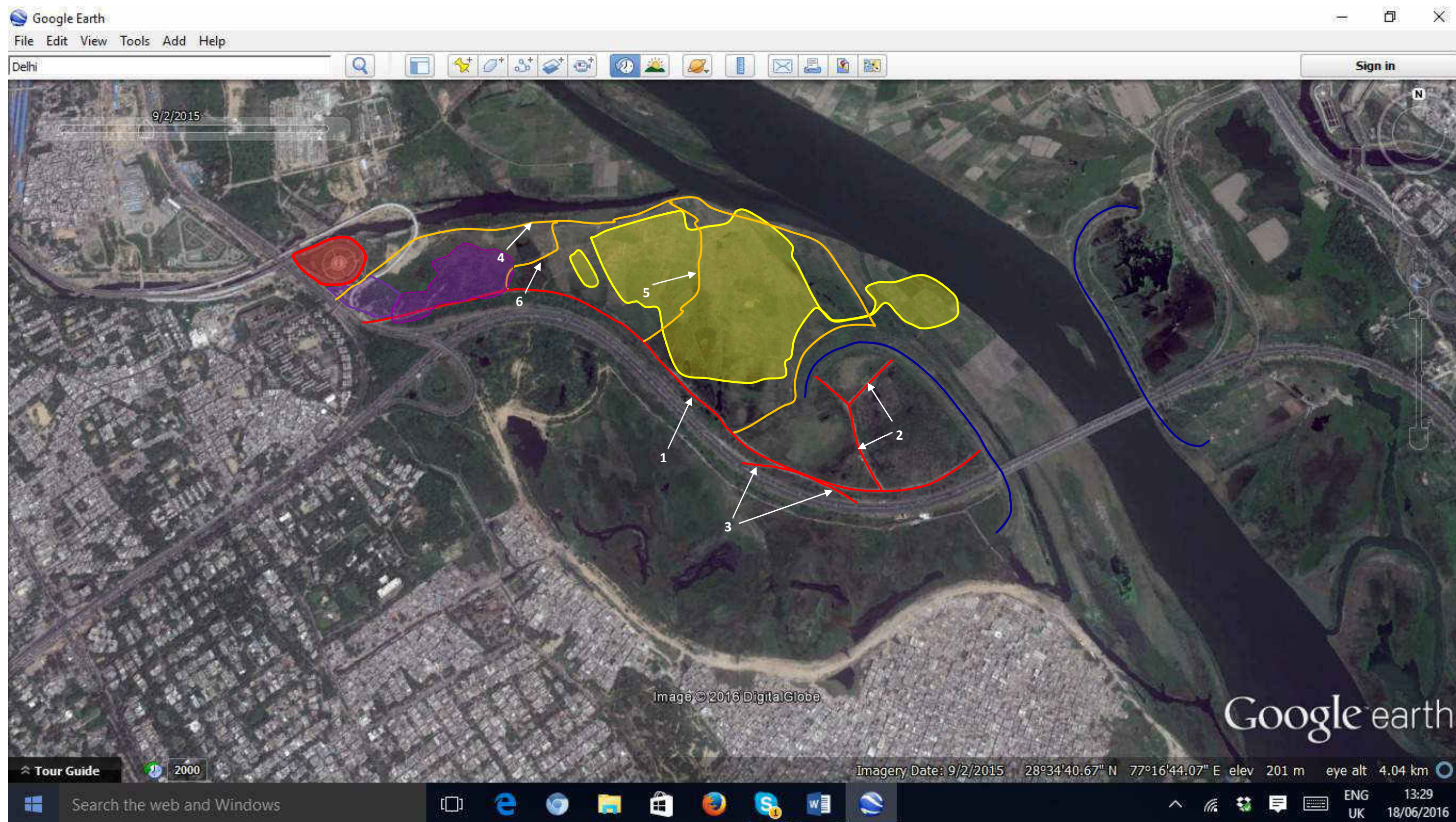
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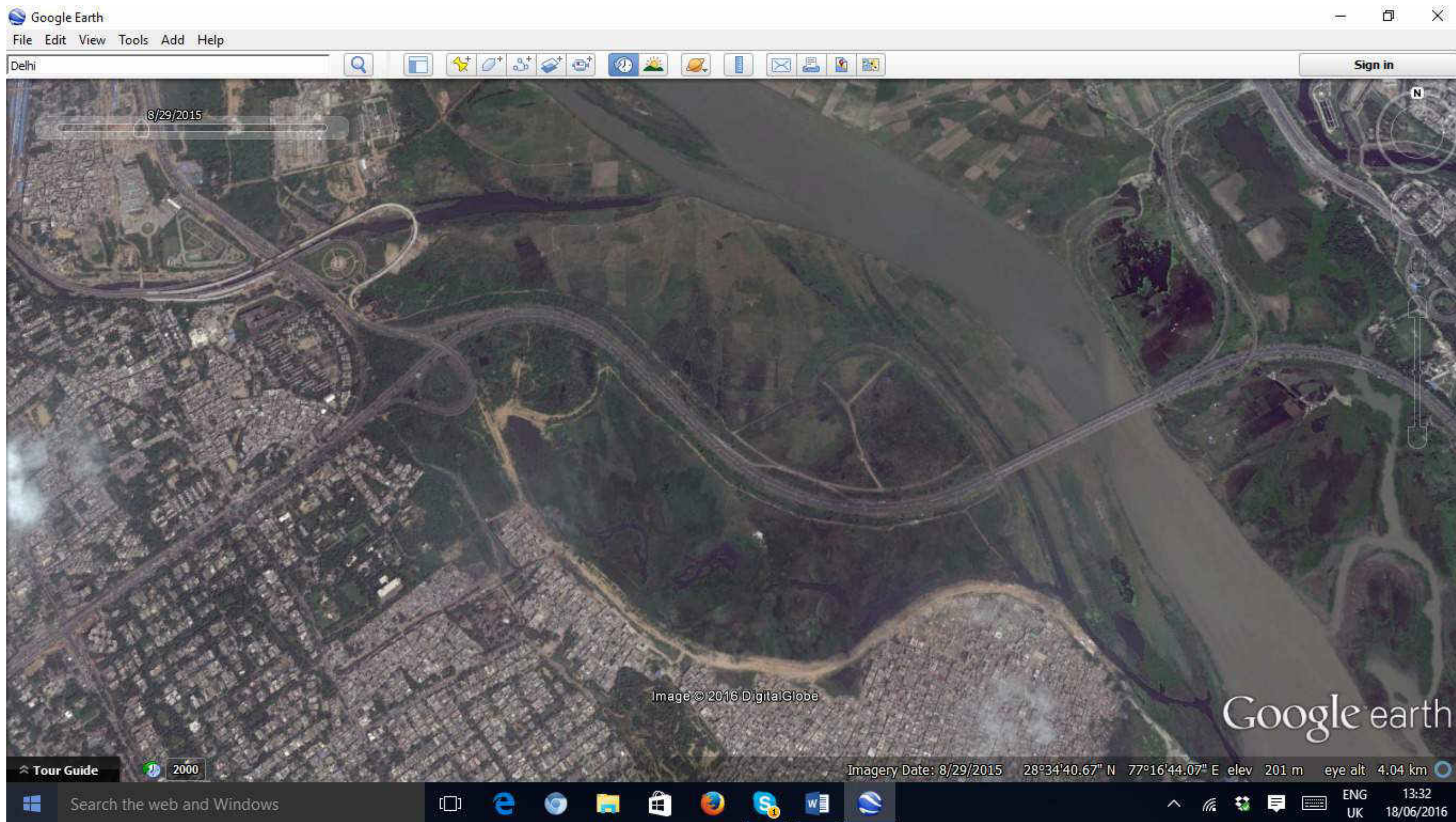
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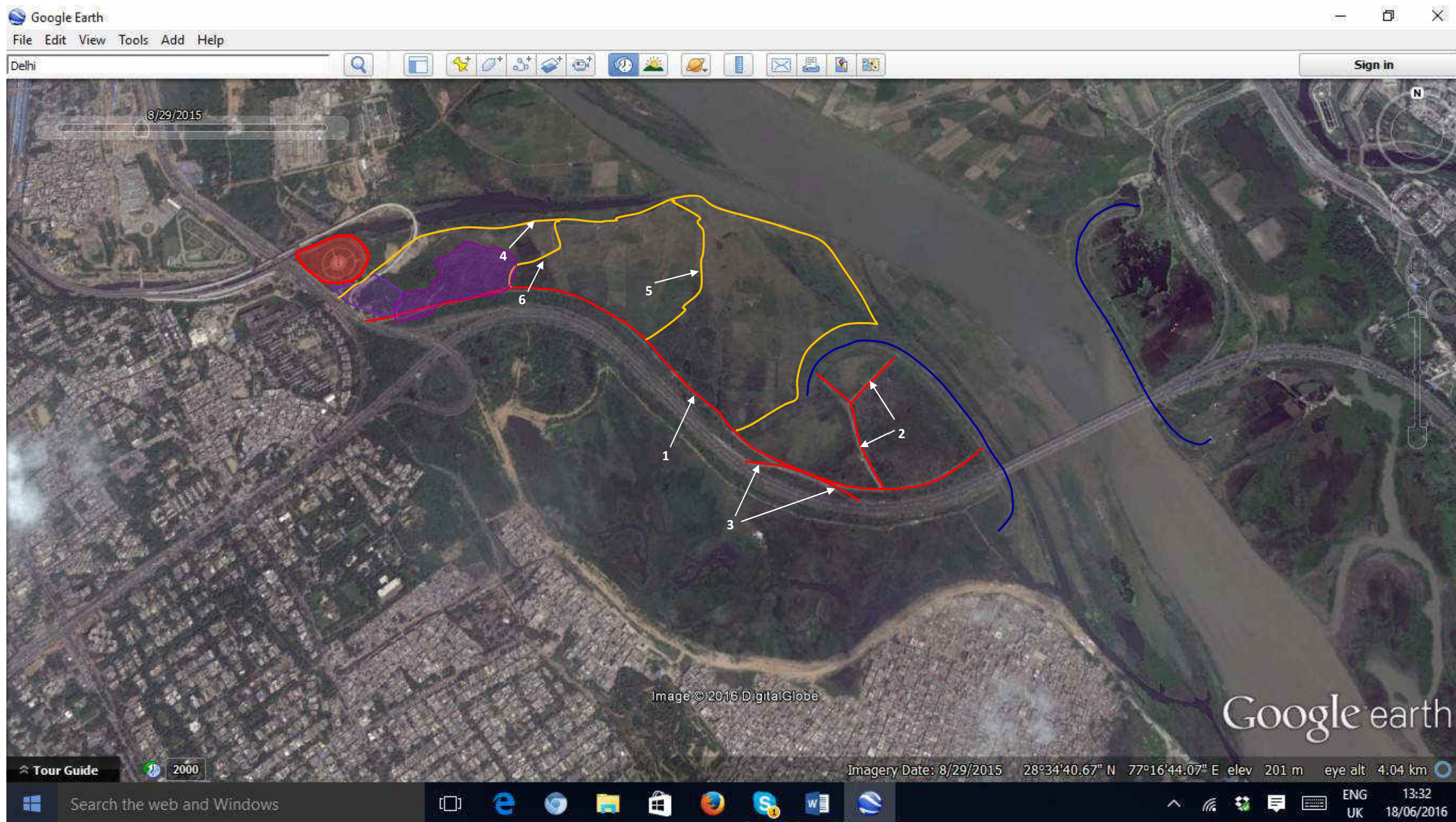
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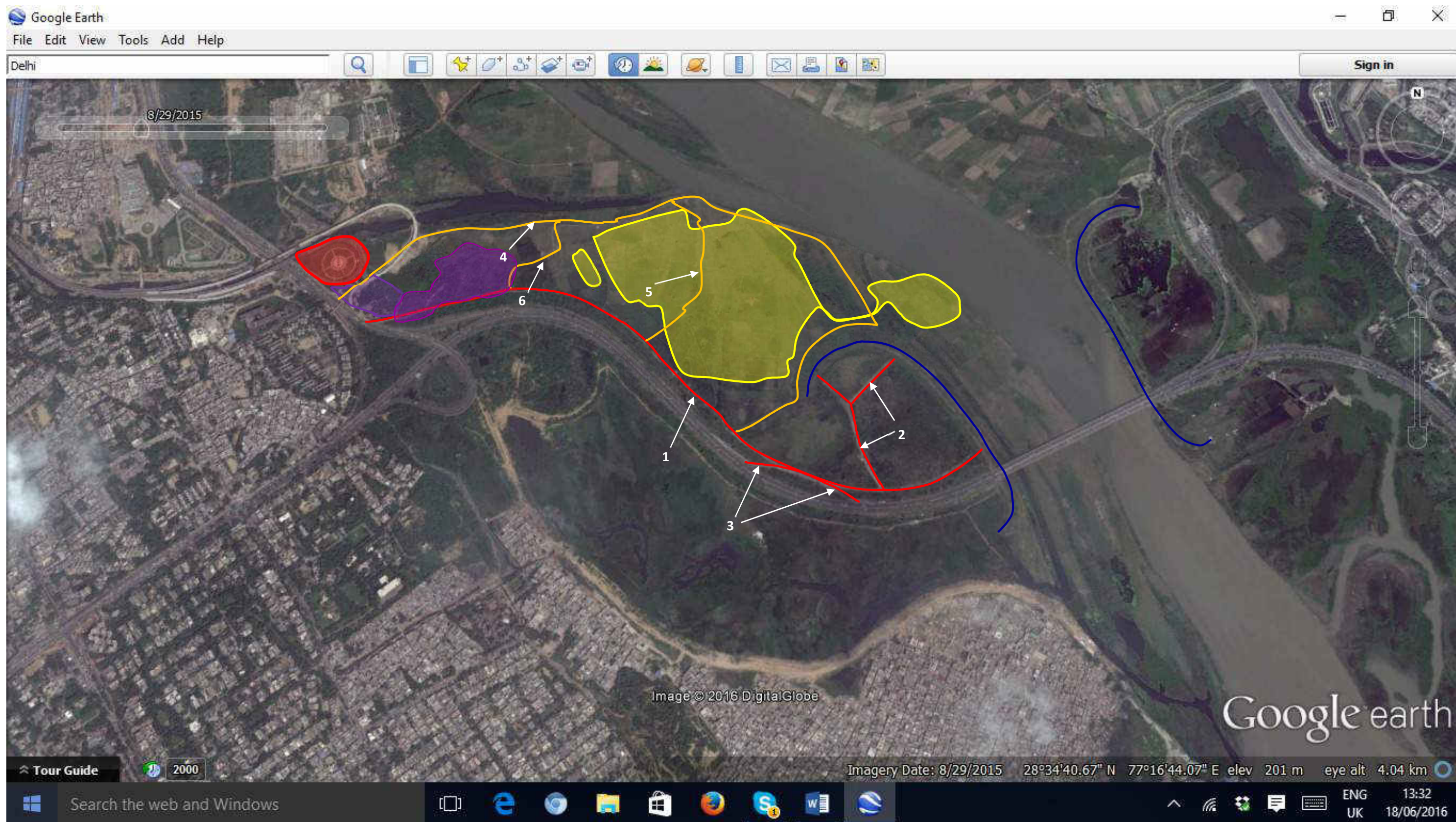
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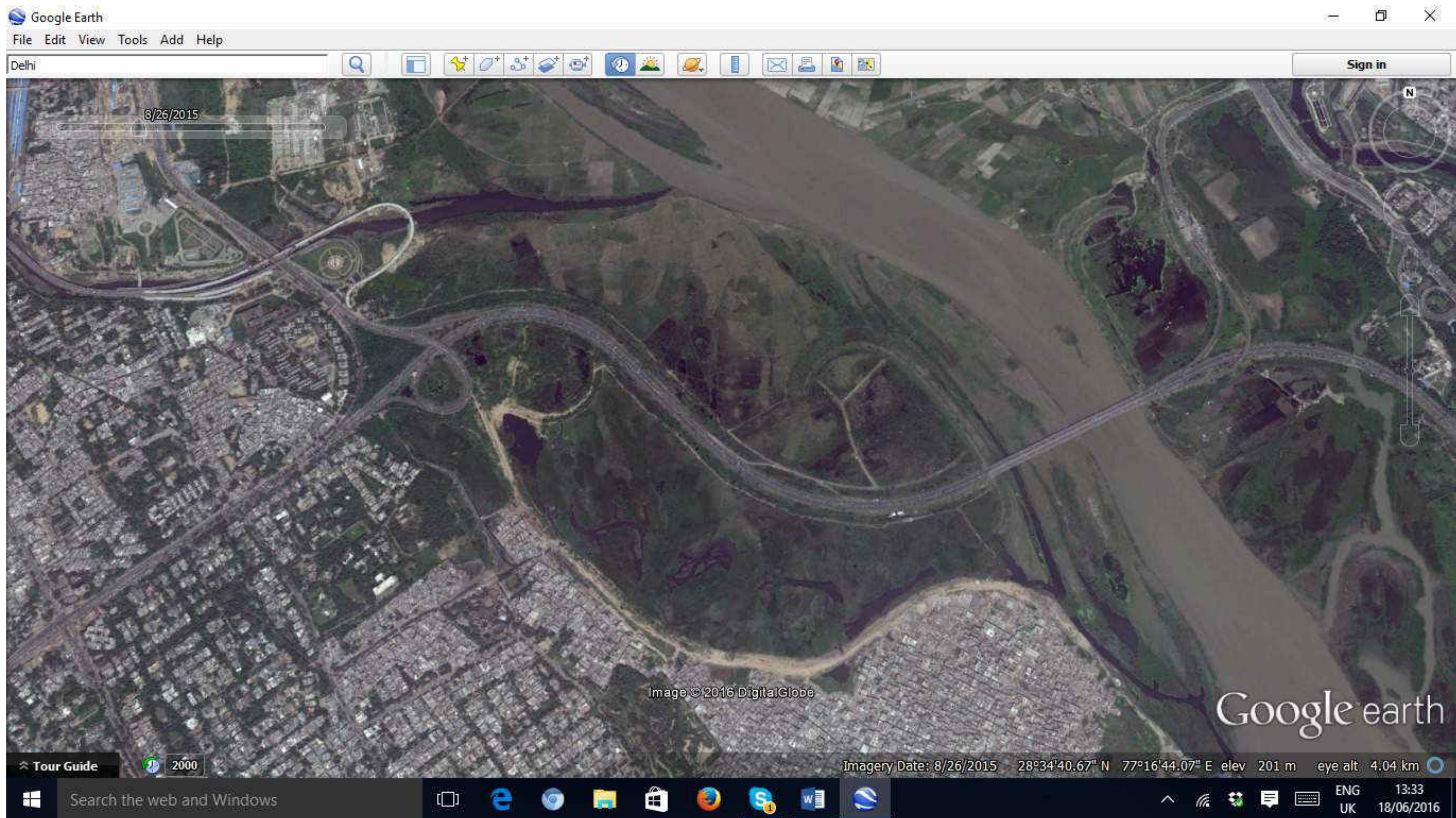
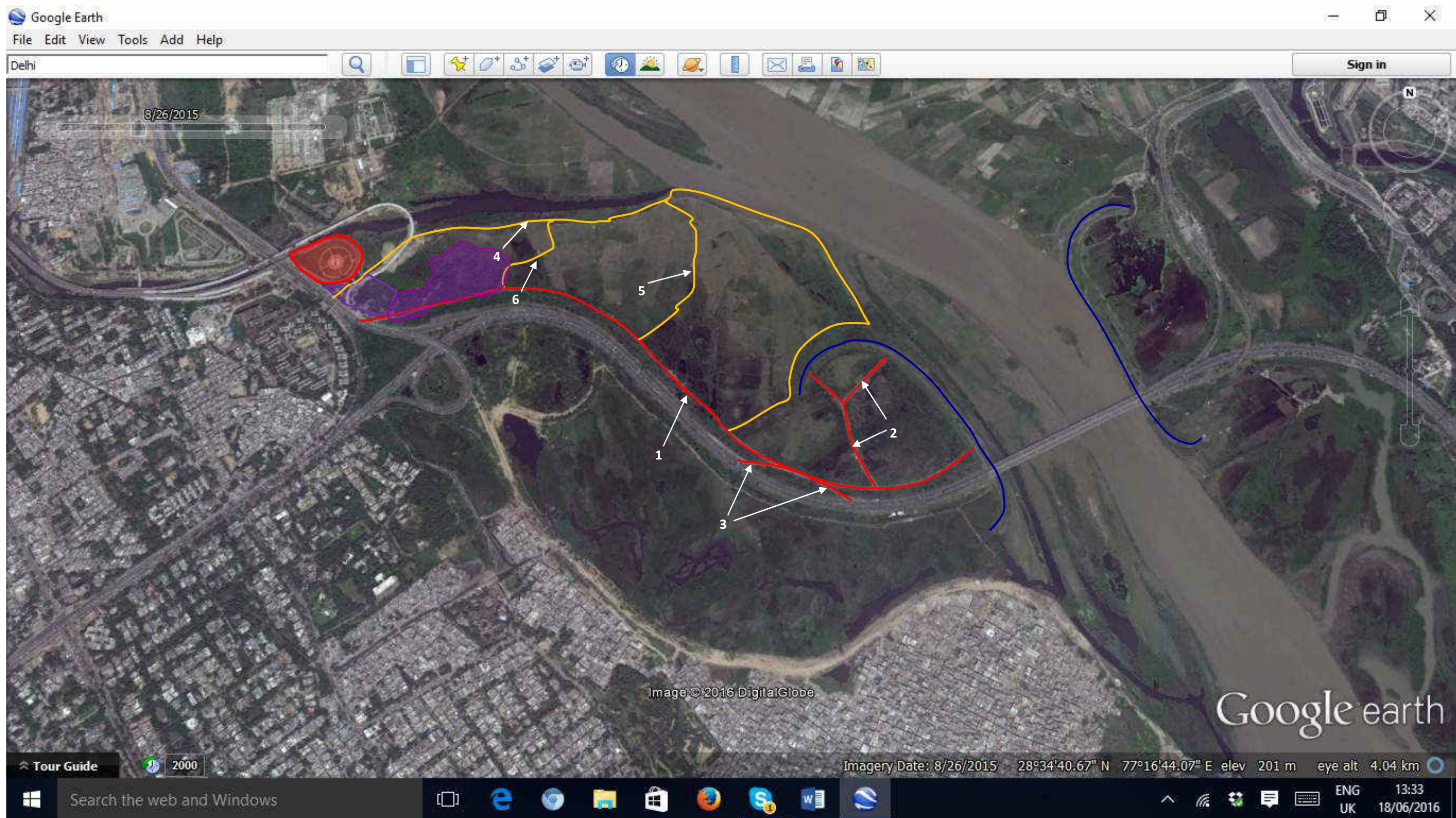


Image Date 26/08/2015 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Harrowed Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





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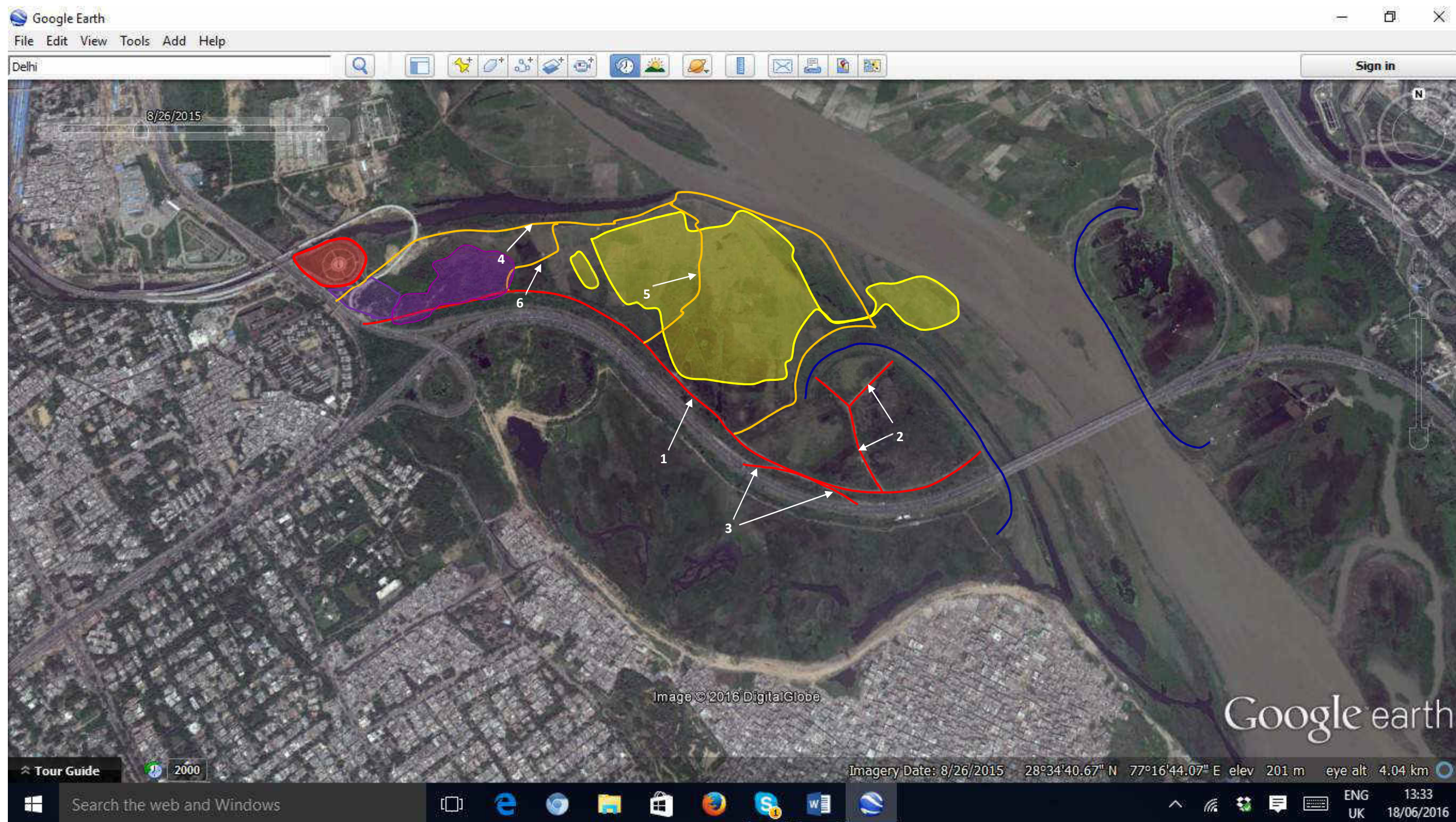
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(5) & (6) Earthen Trails marked by movement of earthmovers; dumpers and tractors moving on this land parcel.

Stabilised heaps of unsolicited dumps of construction debris; Fresh dumps of construction debris; Sun Dial;





**Image Date 26/08/2015 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Harrowed Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

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Area used for World Culture Festival 2016 of Art of Living Foundation/Vyakti Vikash Kendra.



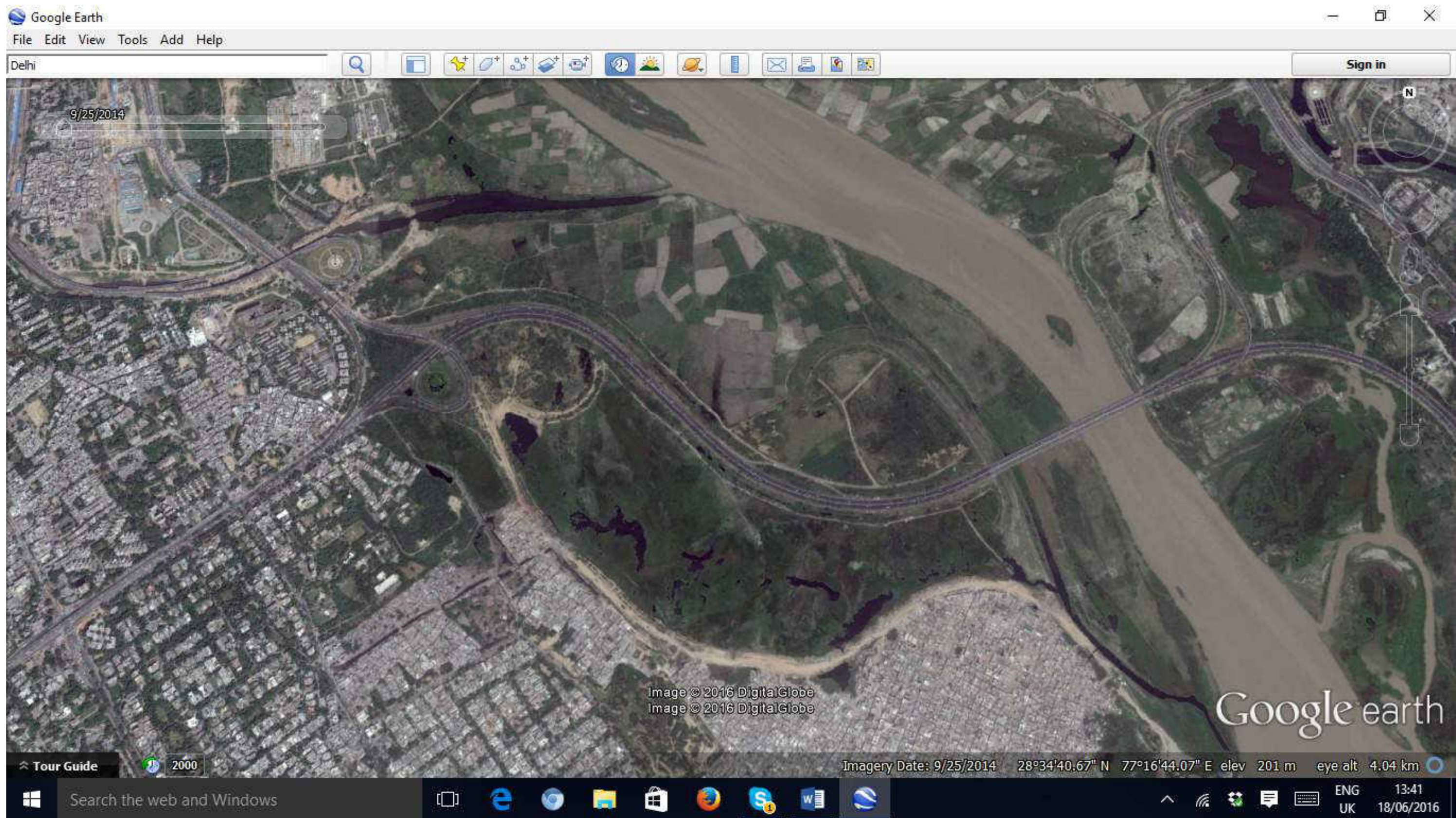
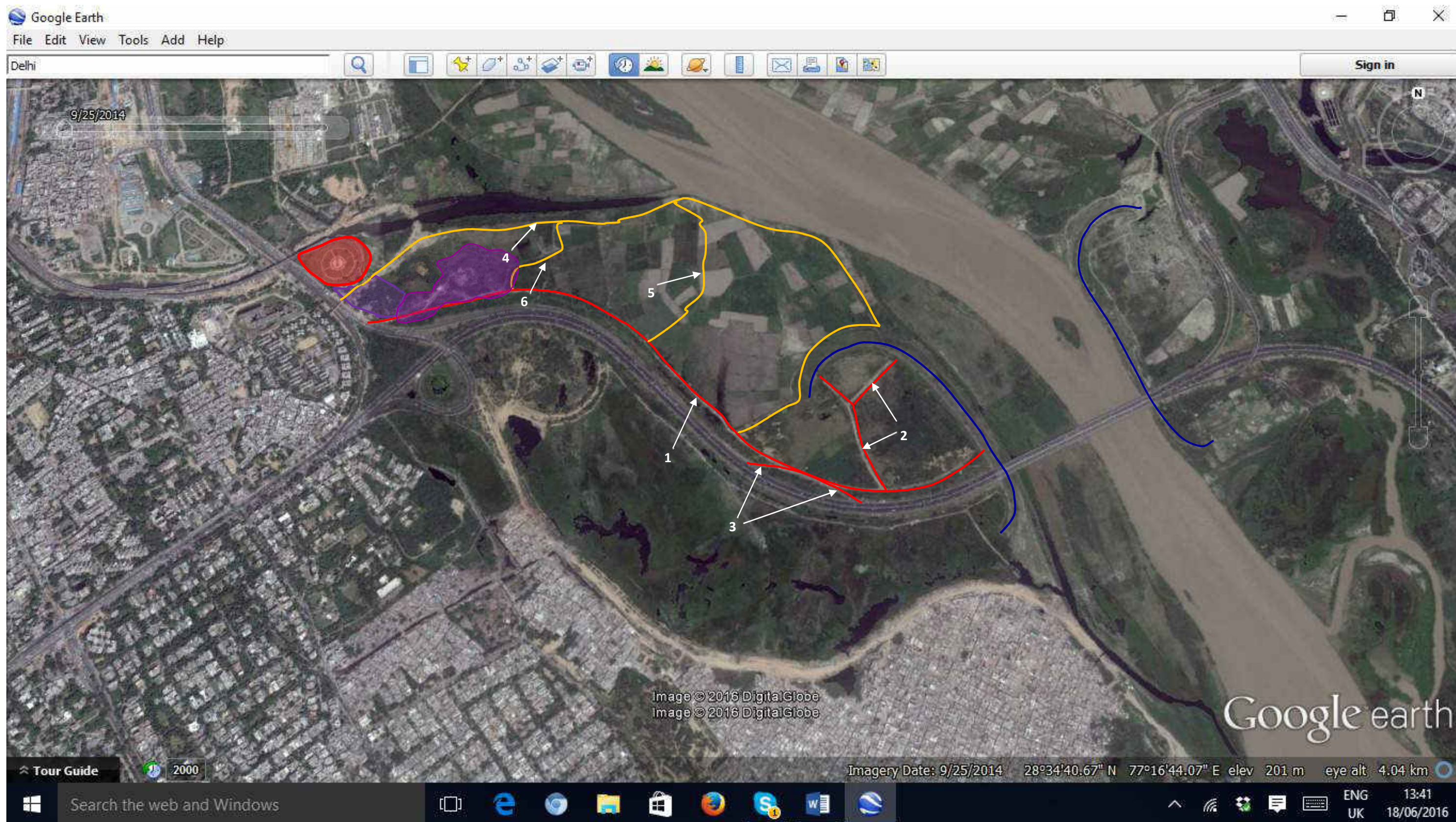


Image Date 25/09/2014 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Harrowed Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





**Image Date 25/09/2014 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Harrowed Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

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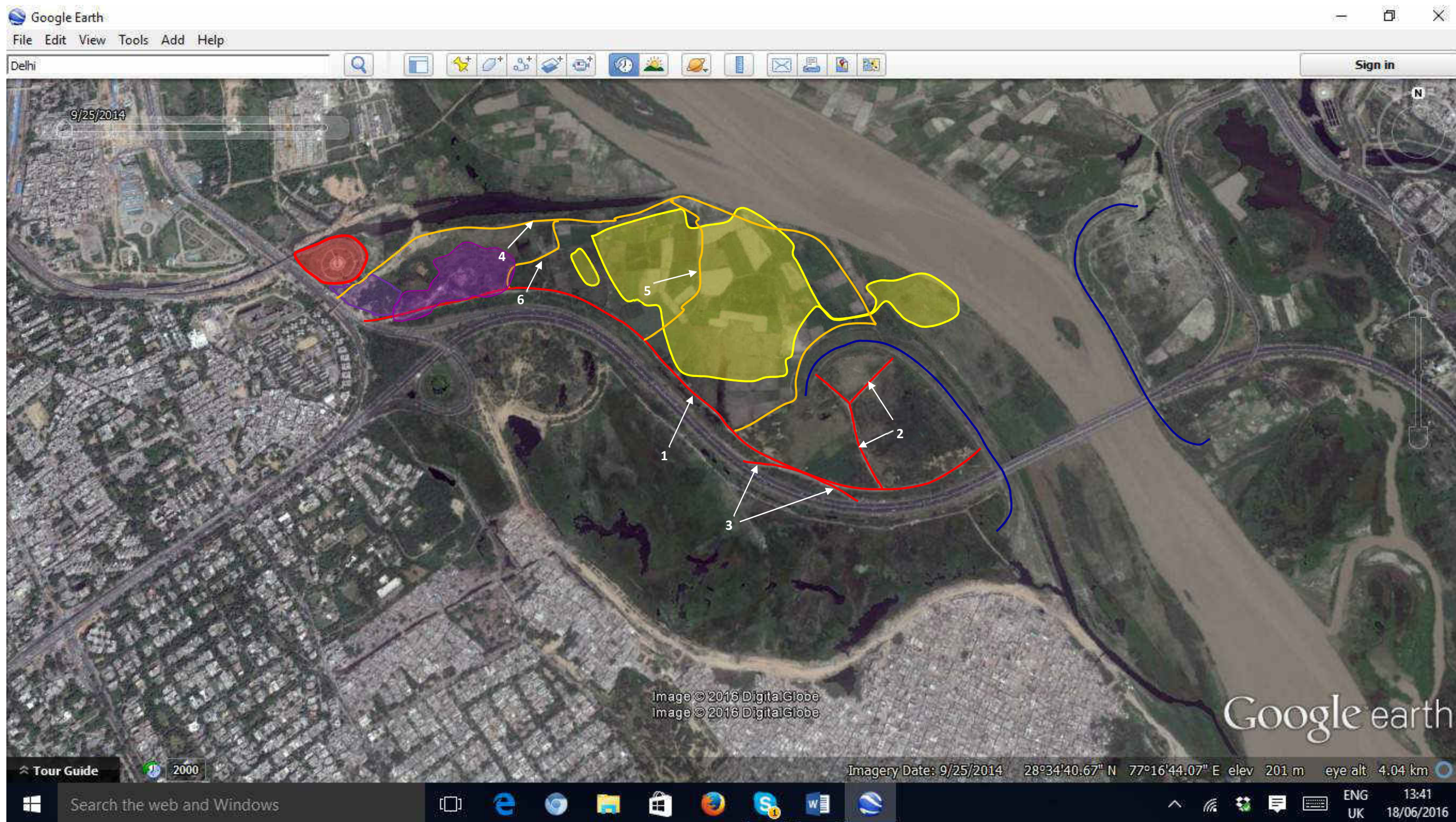
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**Image Date 25/09/2014 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Harrowed Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

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Area used for World Culture Festival 2016 of Art of Living Foundation/Vyakti Vikash Kendra.



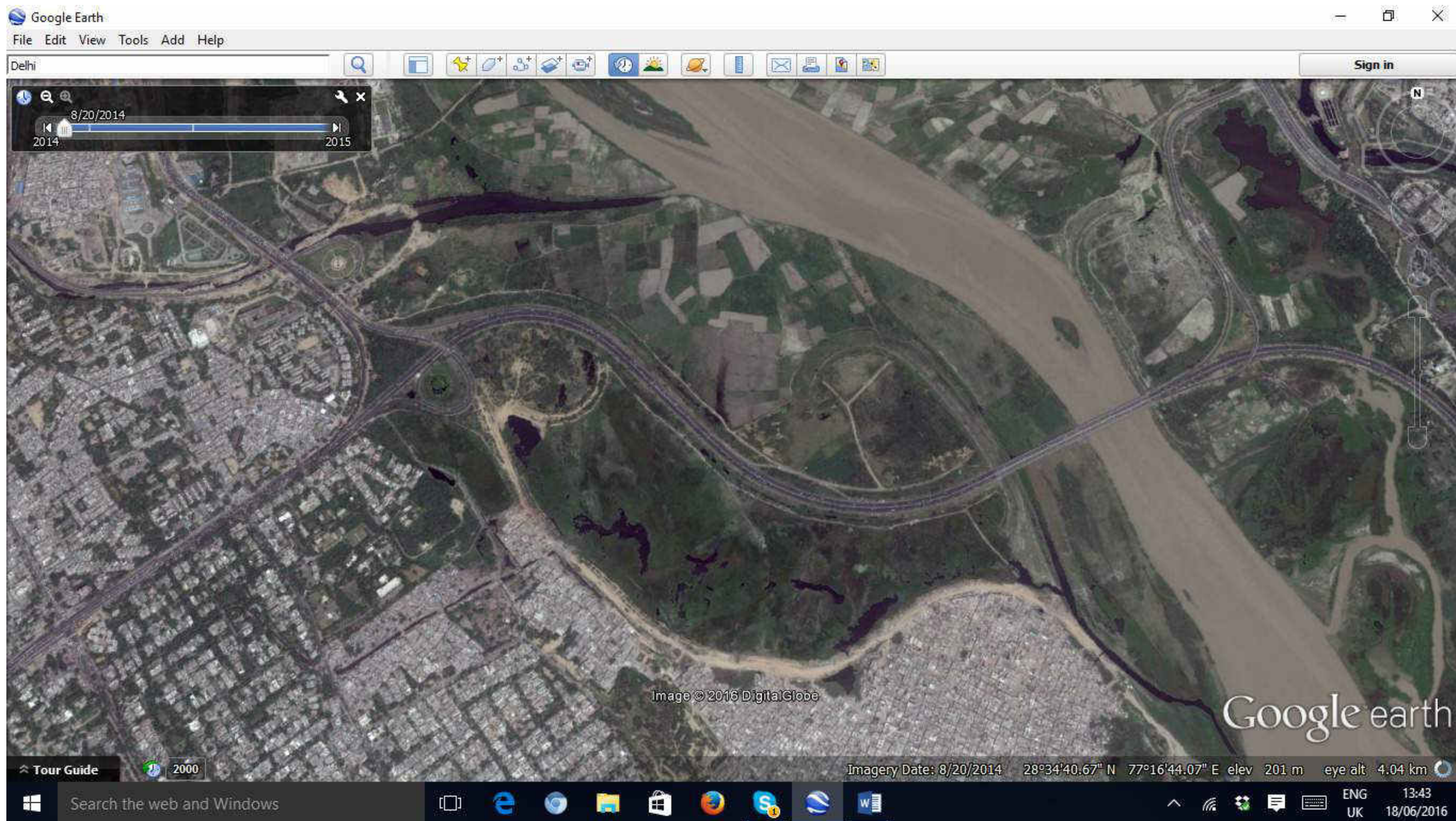
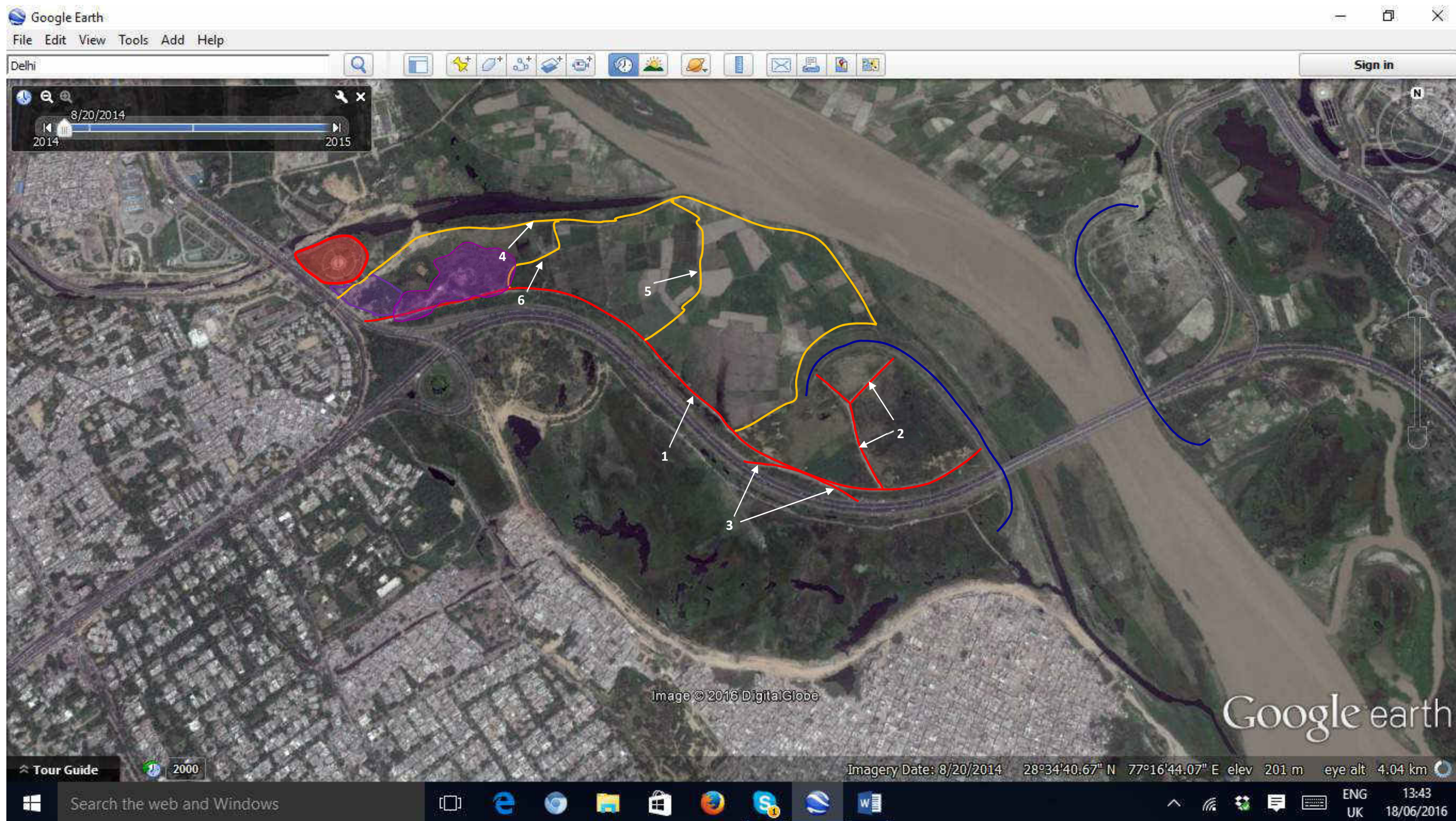


Image Date 20/08/2014 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Harrowed Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





**Image Date 20/08/2014 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Harrowed Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

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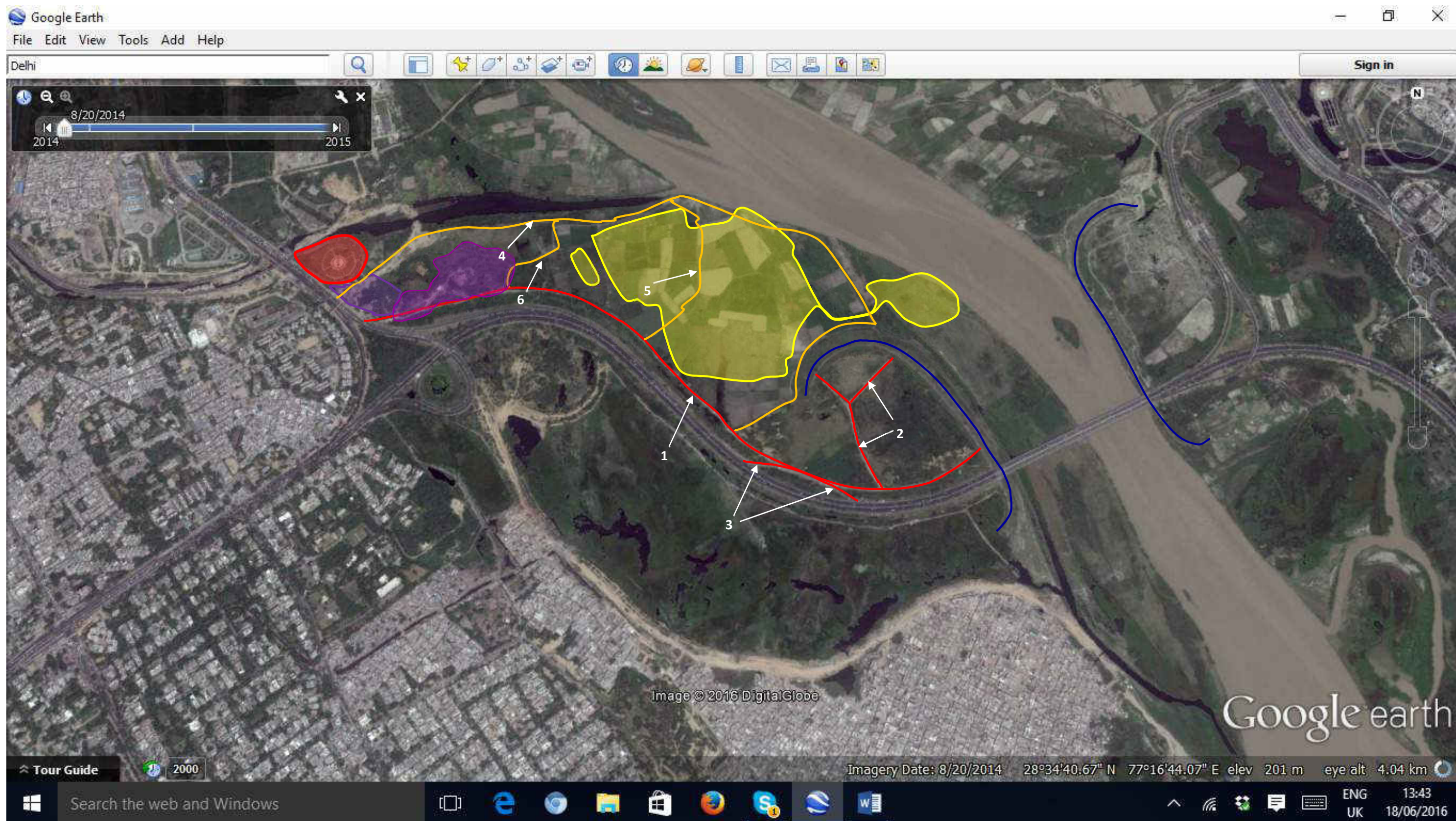
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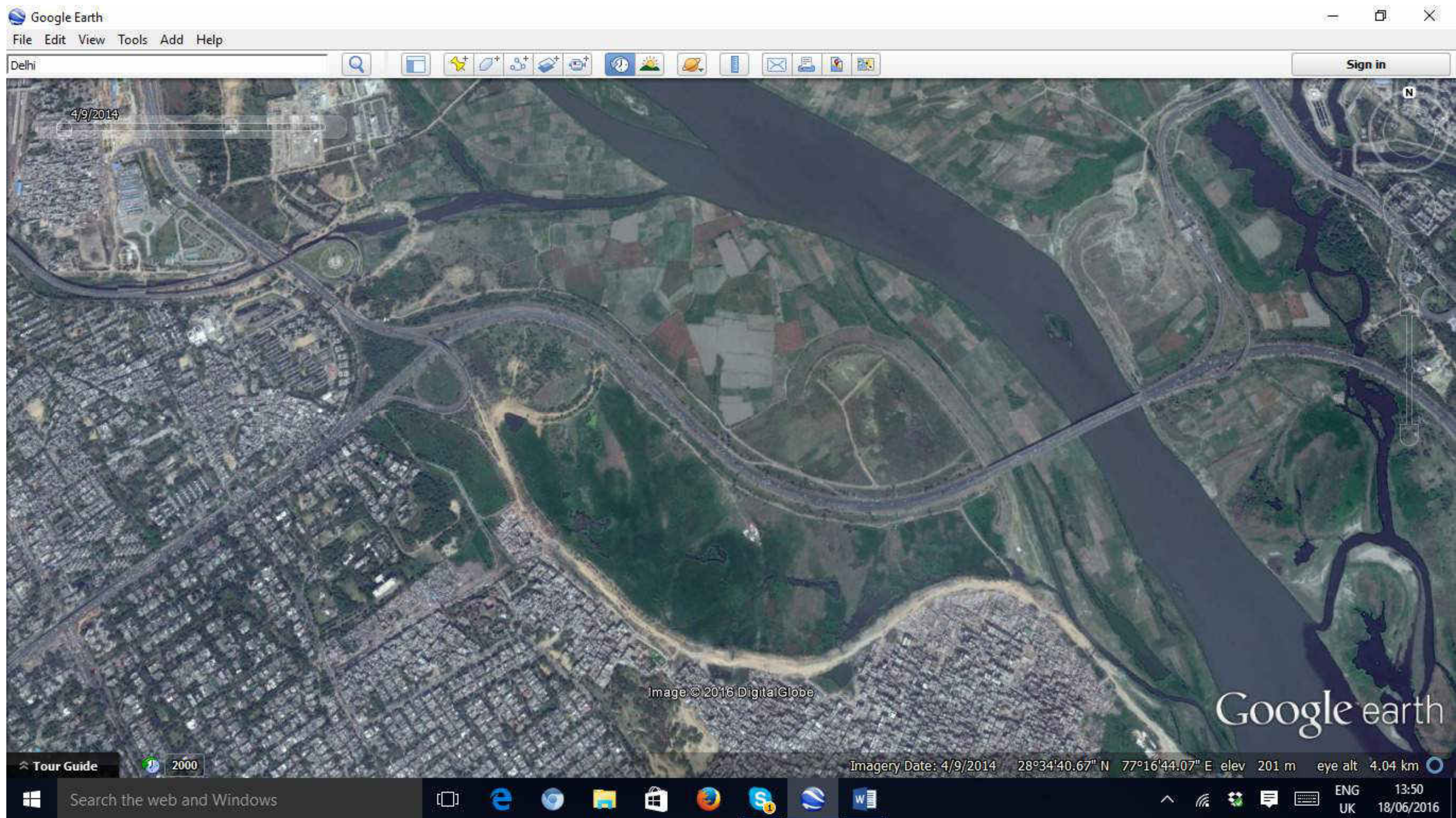
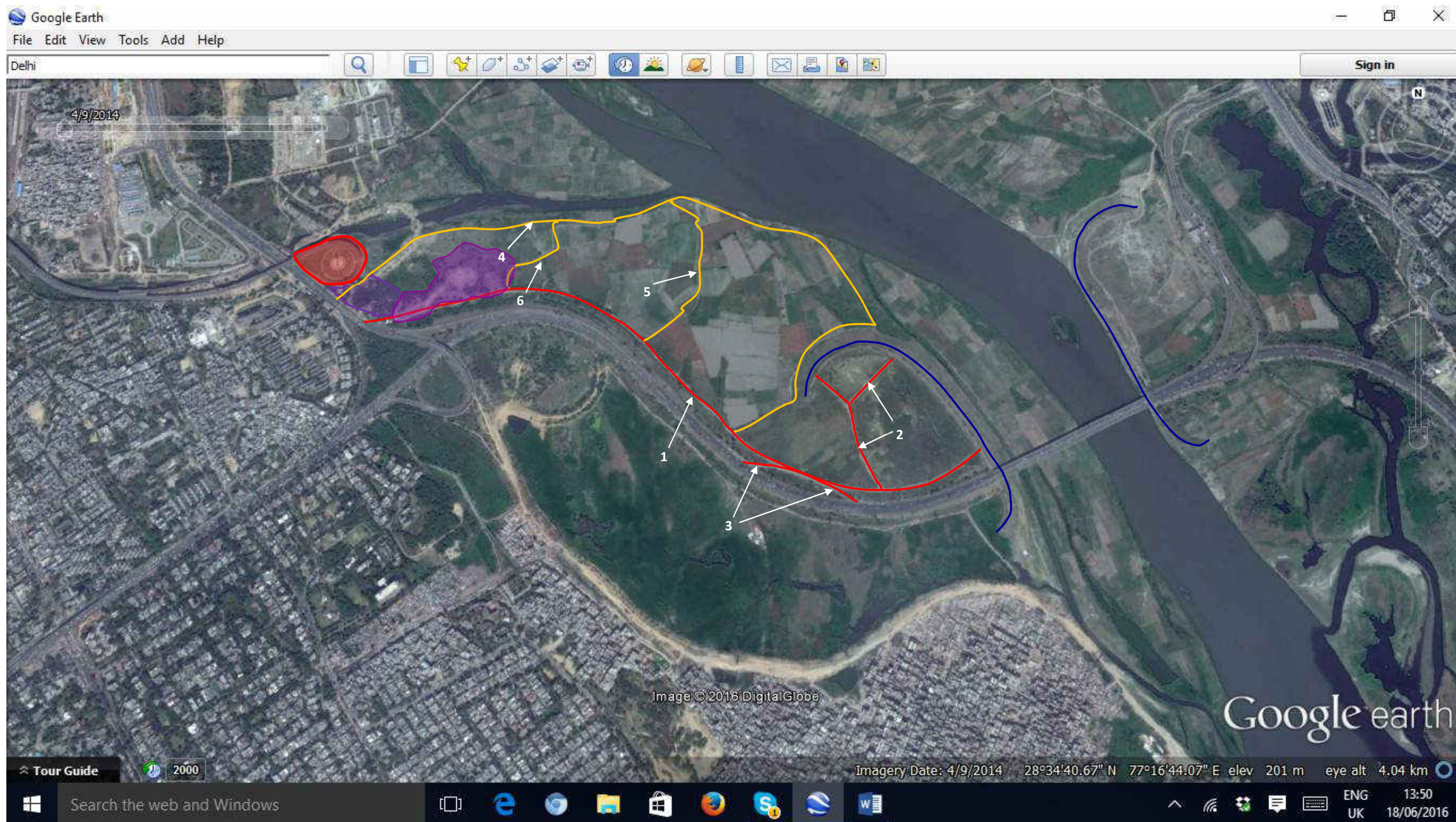


Image Date 09/04/2014 (Pre-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





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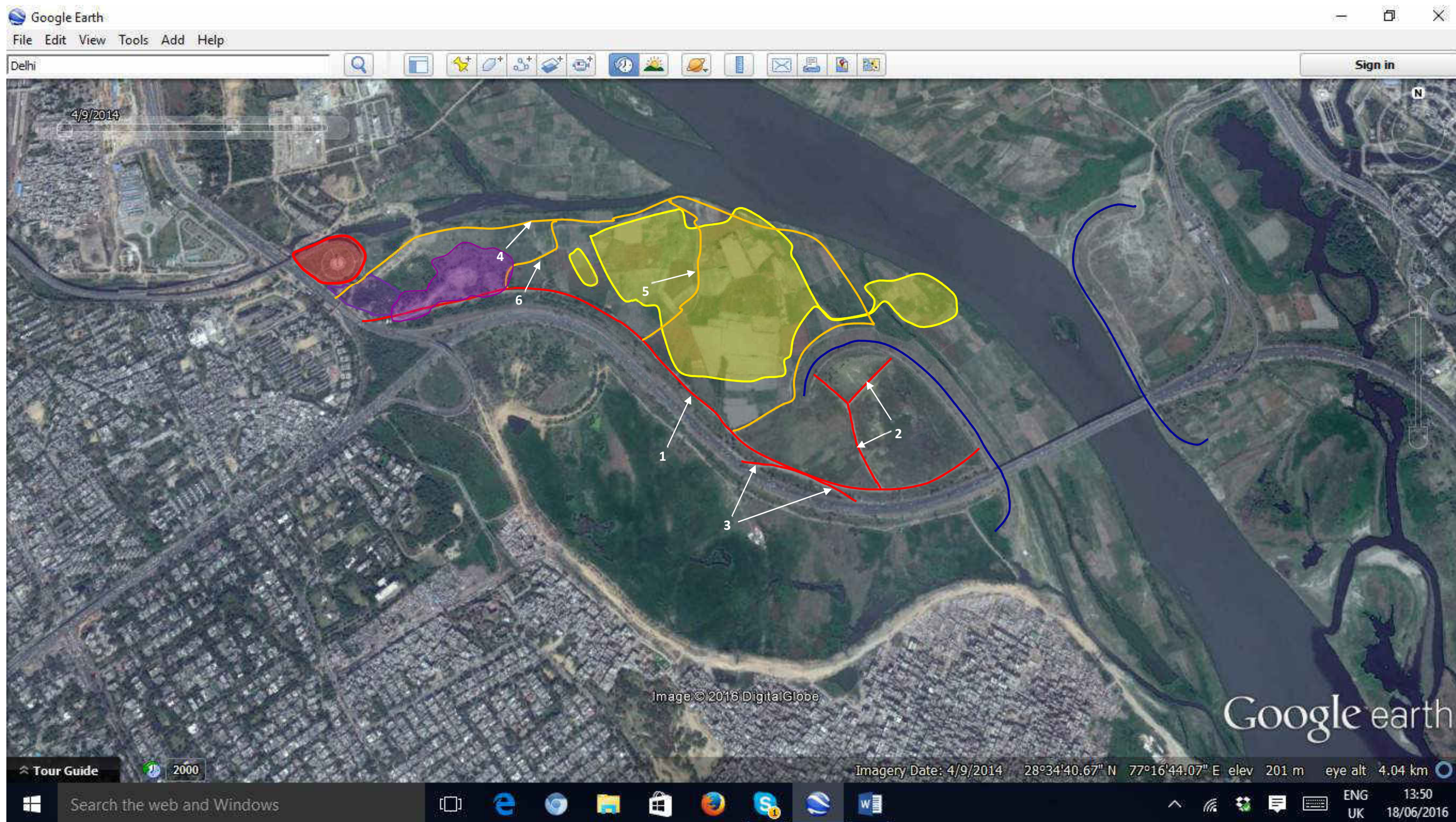
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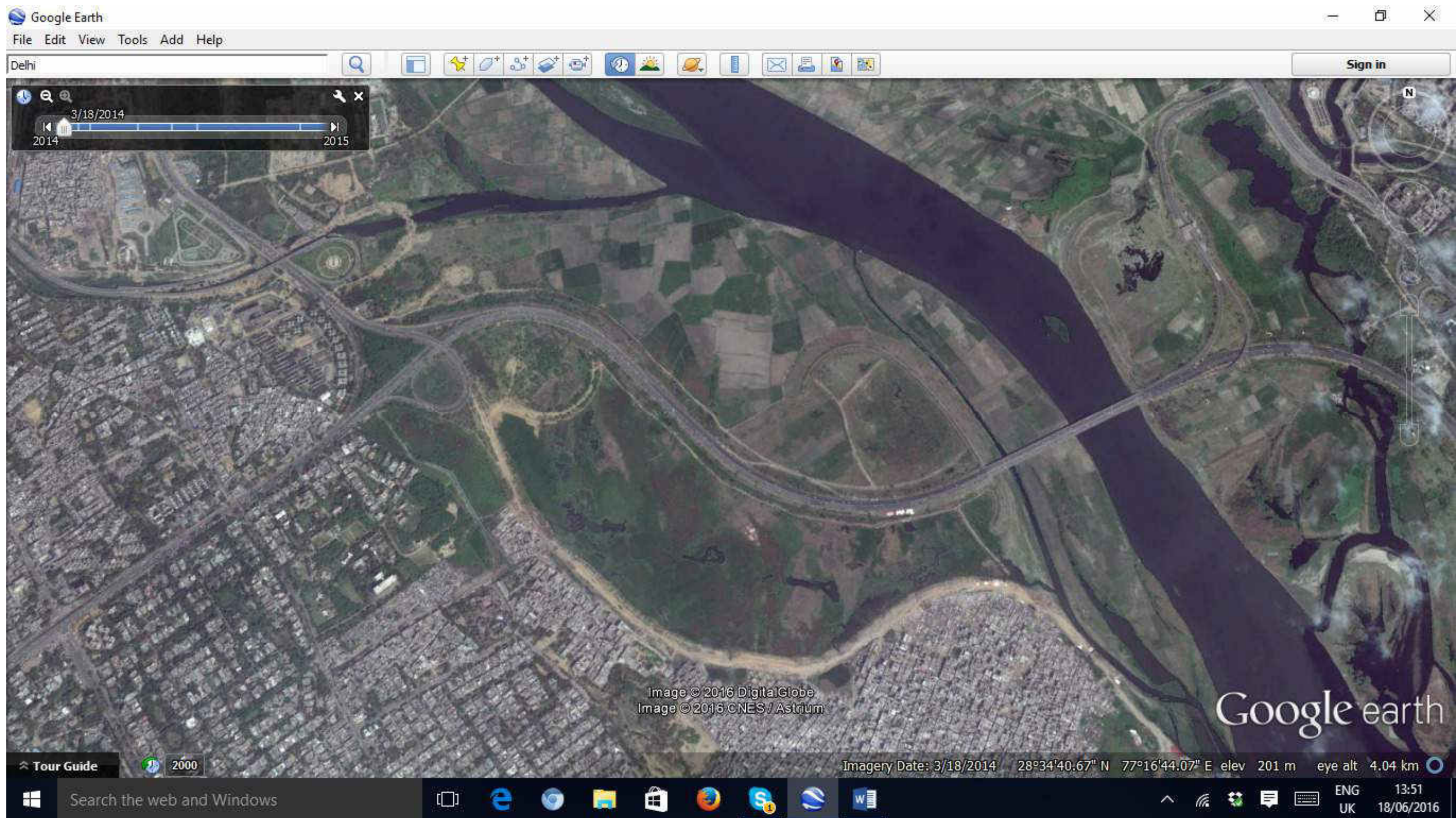
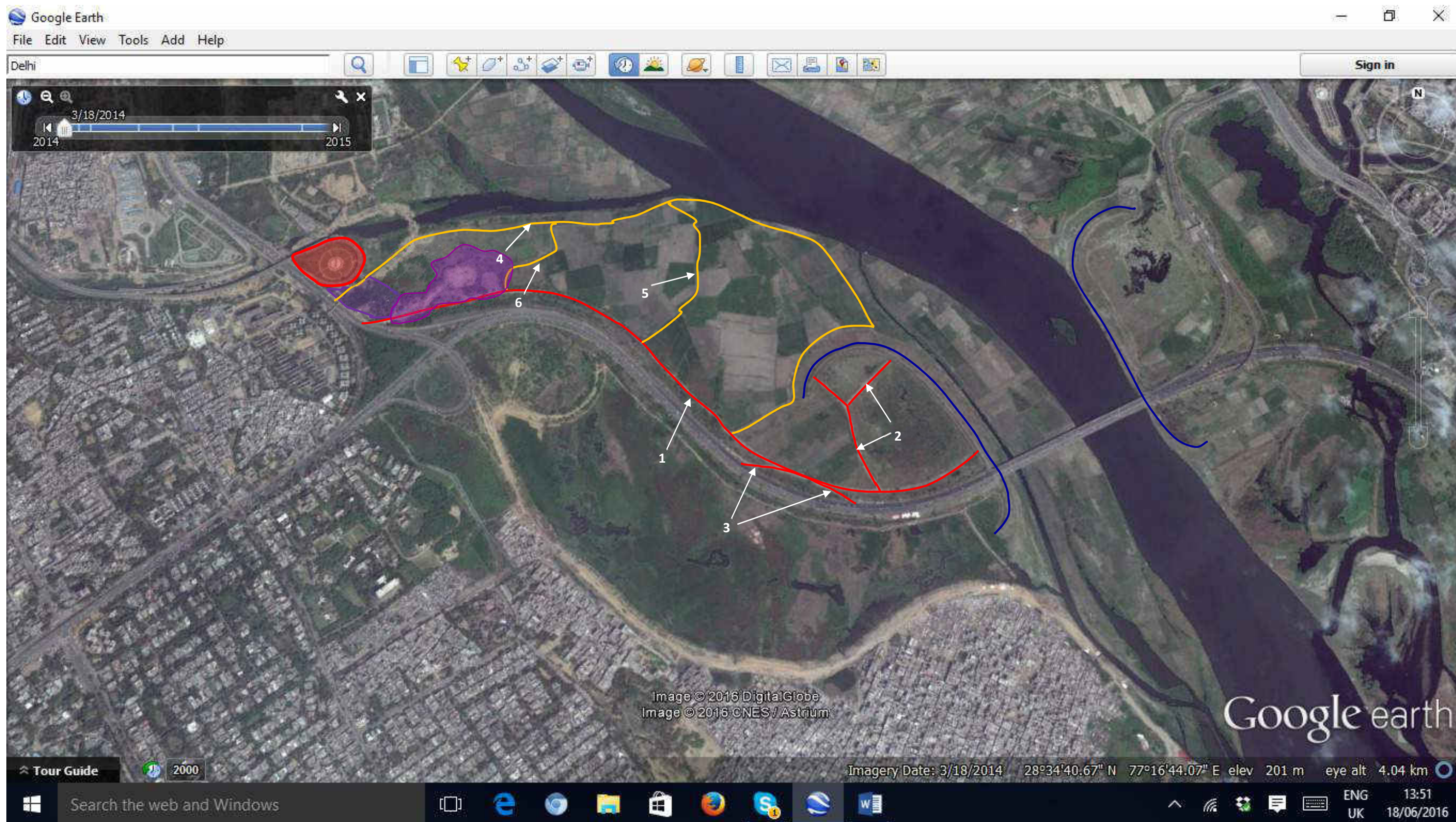


Image Date 18/03/2014 (Pre-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





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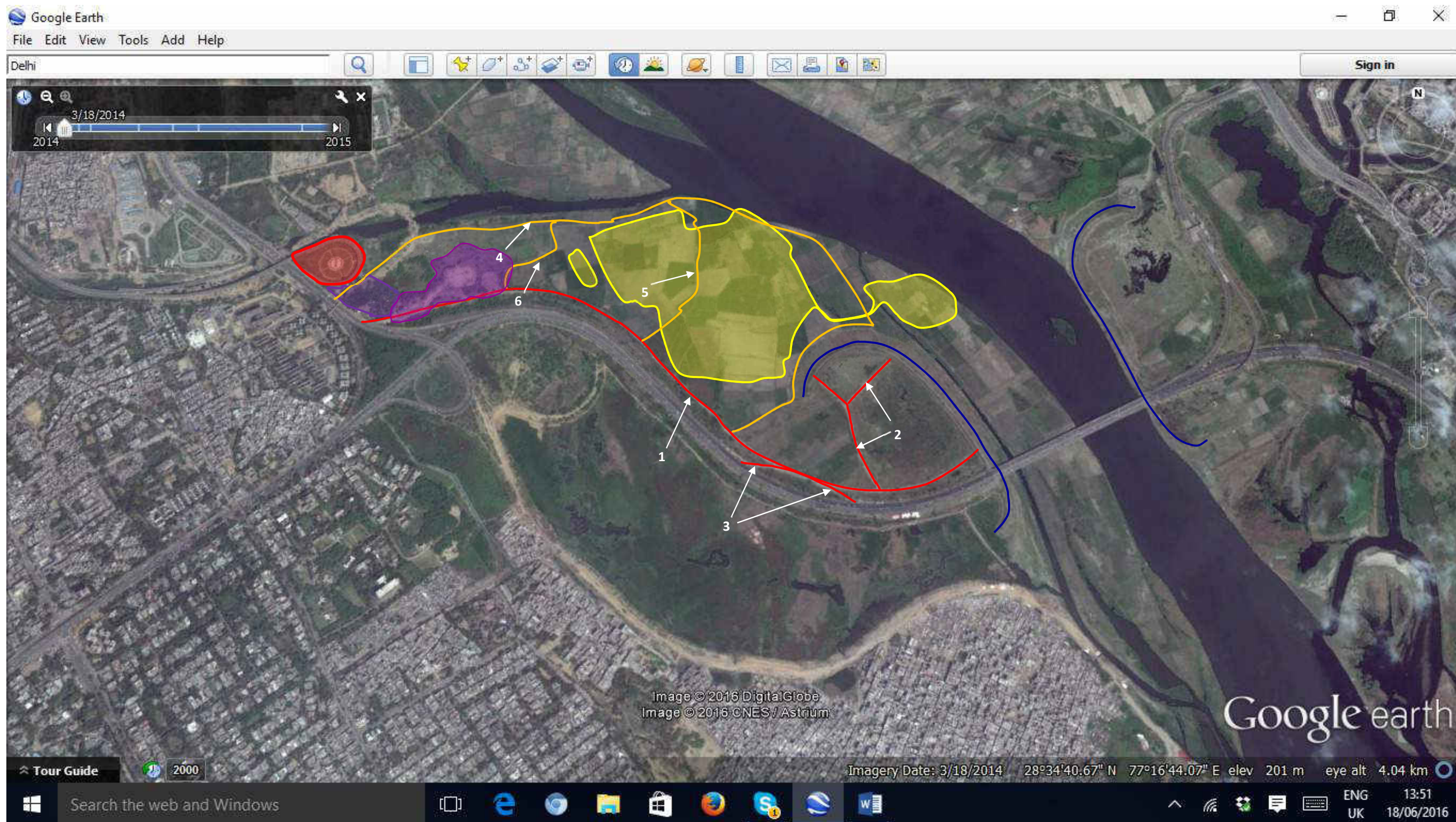
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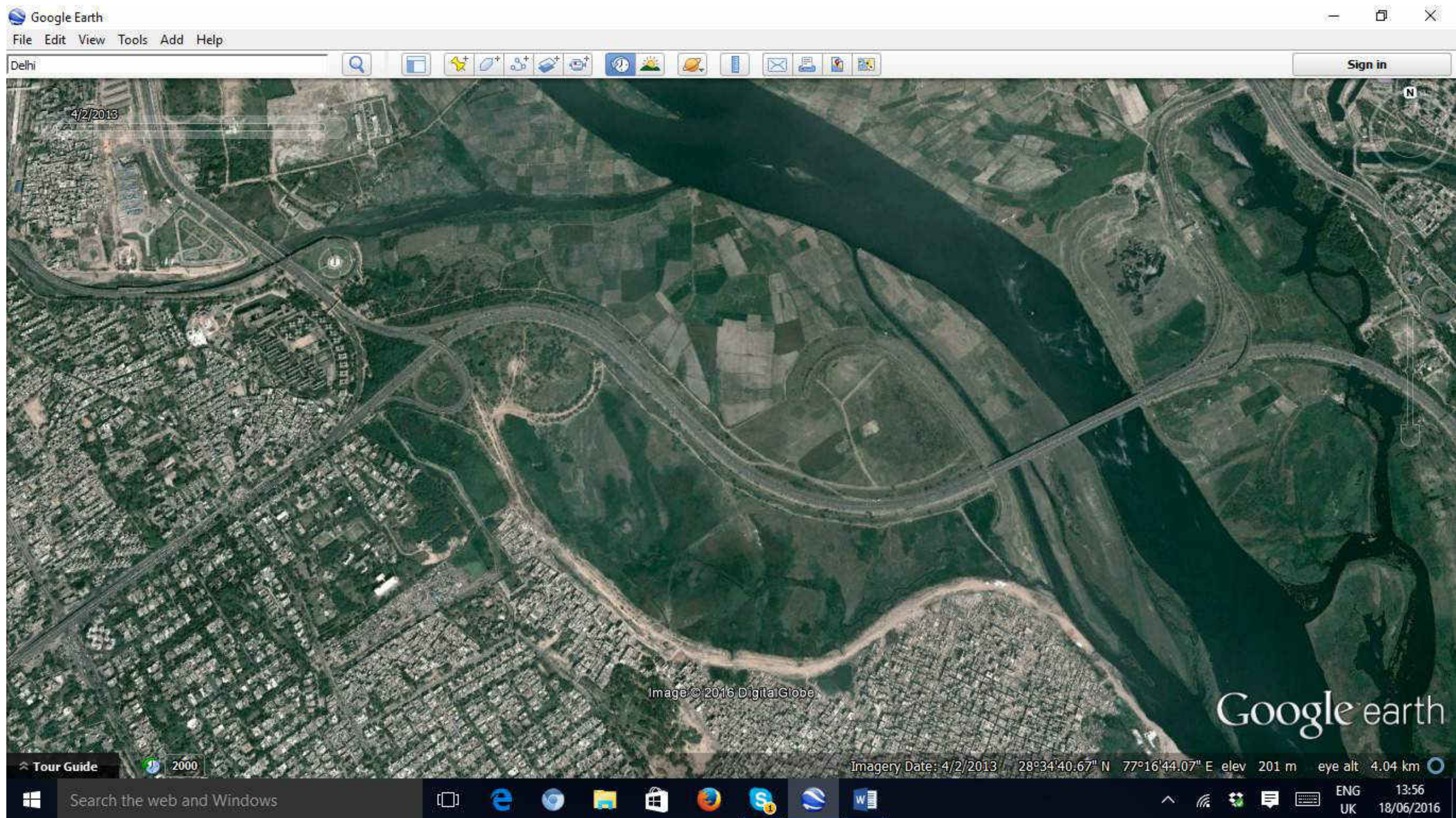
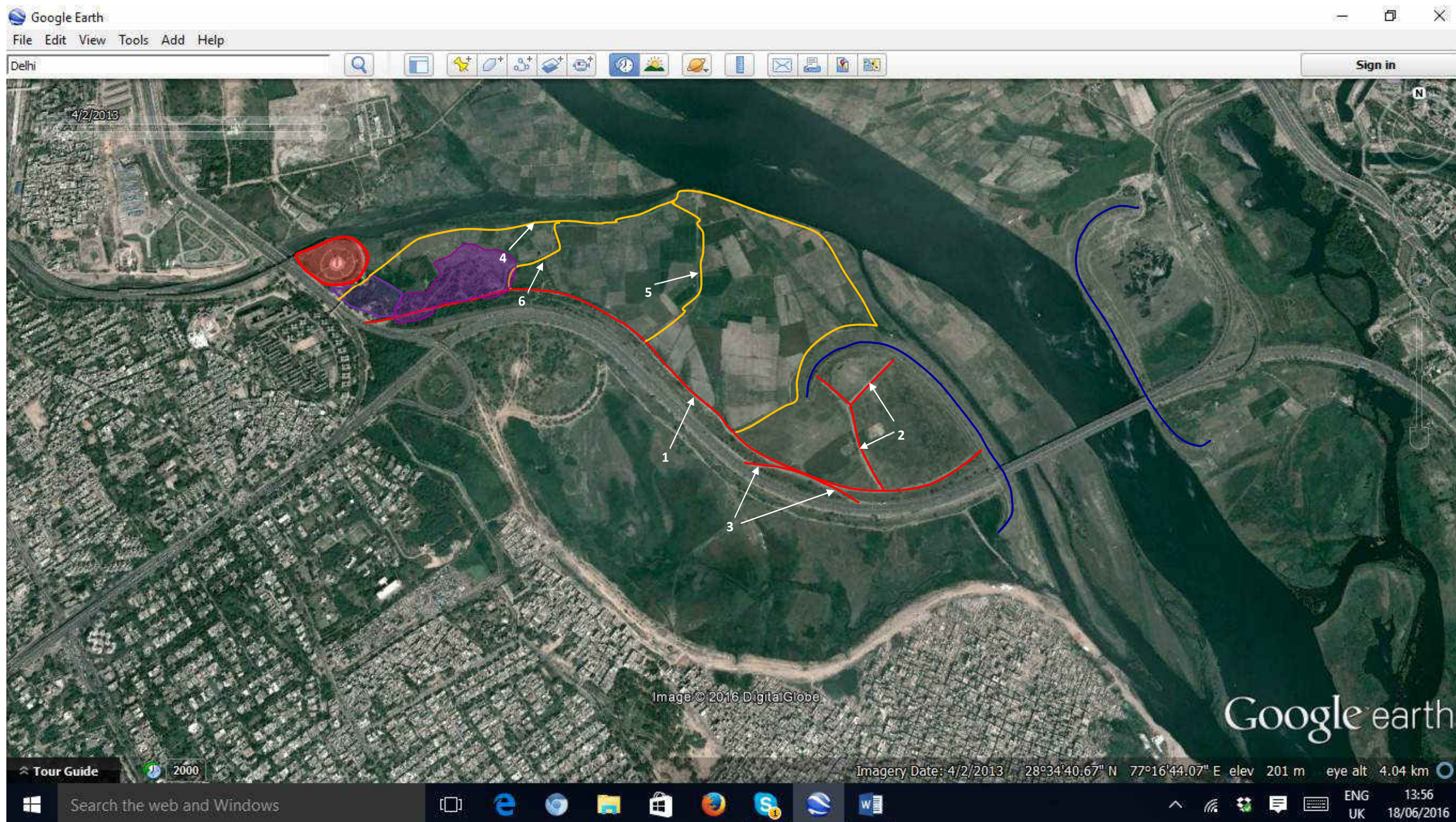


Image Date 02/04/2013 (Pre-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





**Image Date 02/04/2013 (Pre-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

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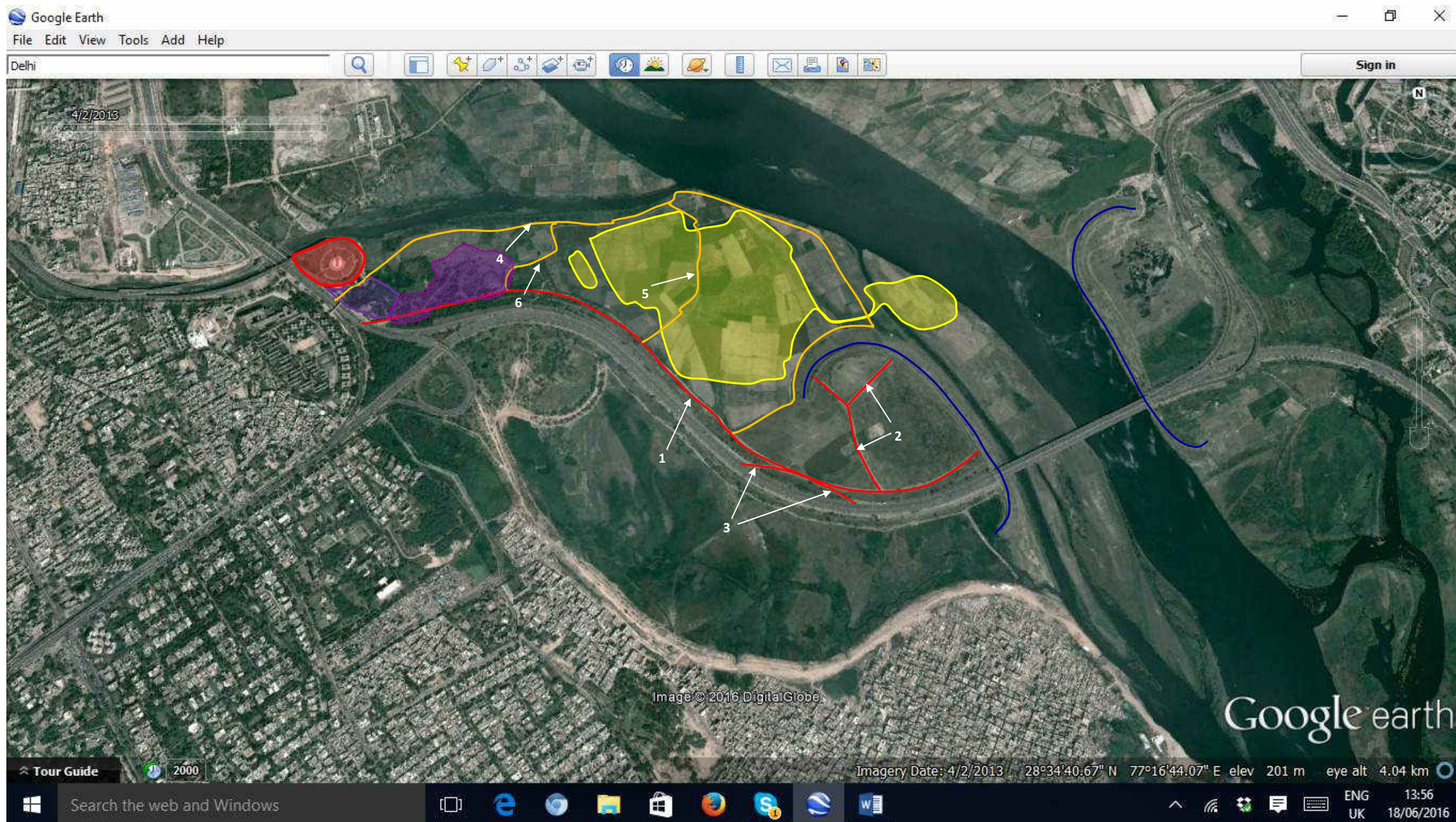
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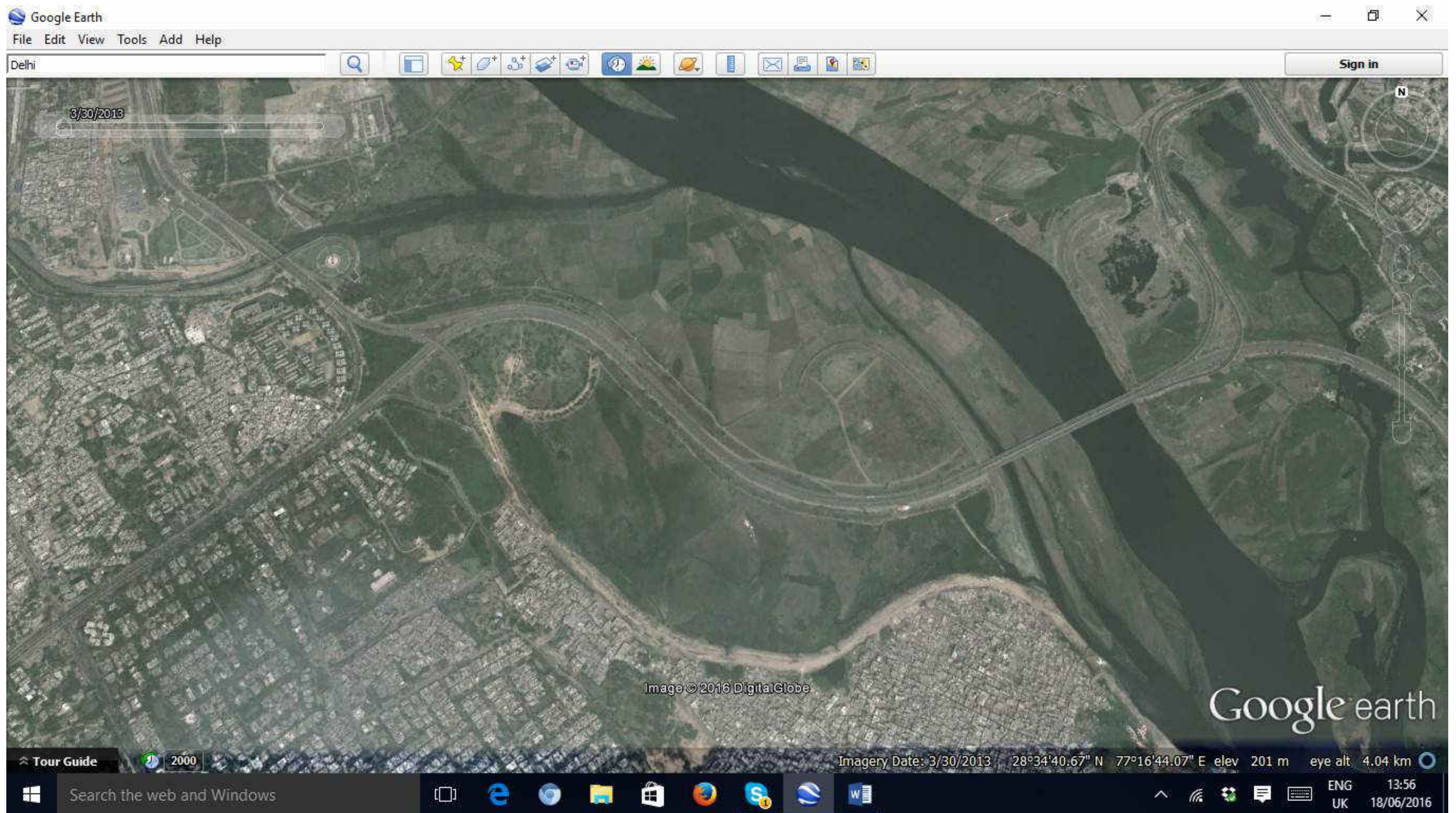
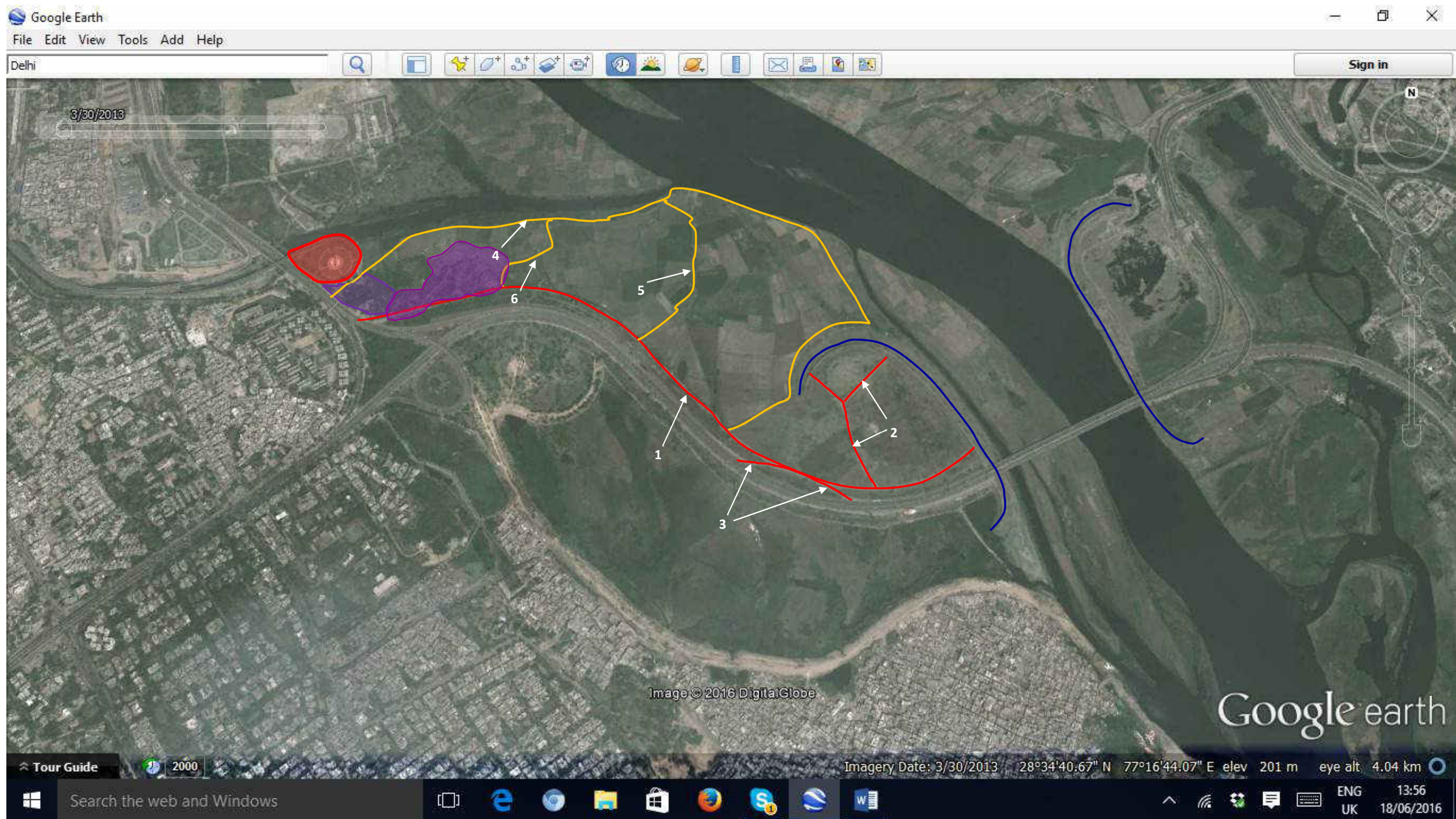


Image Date 30/03/2013 (Pre-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





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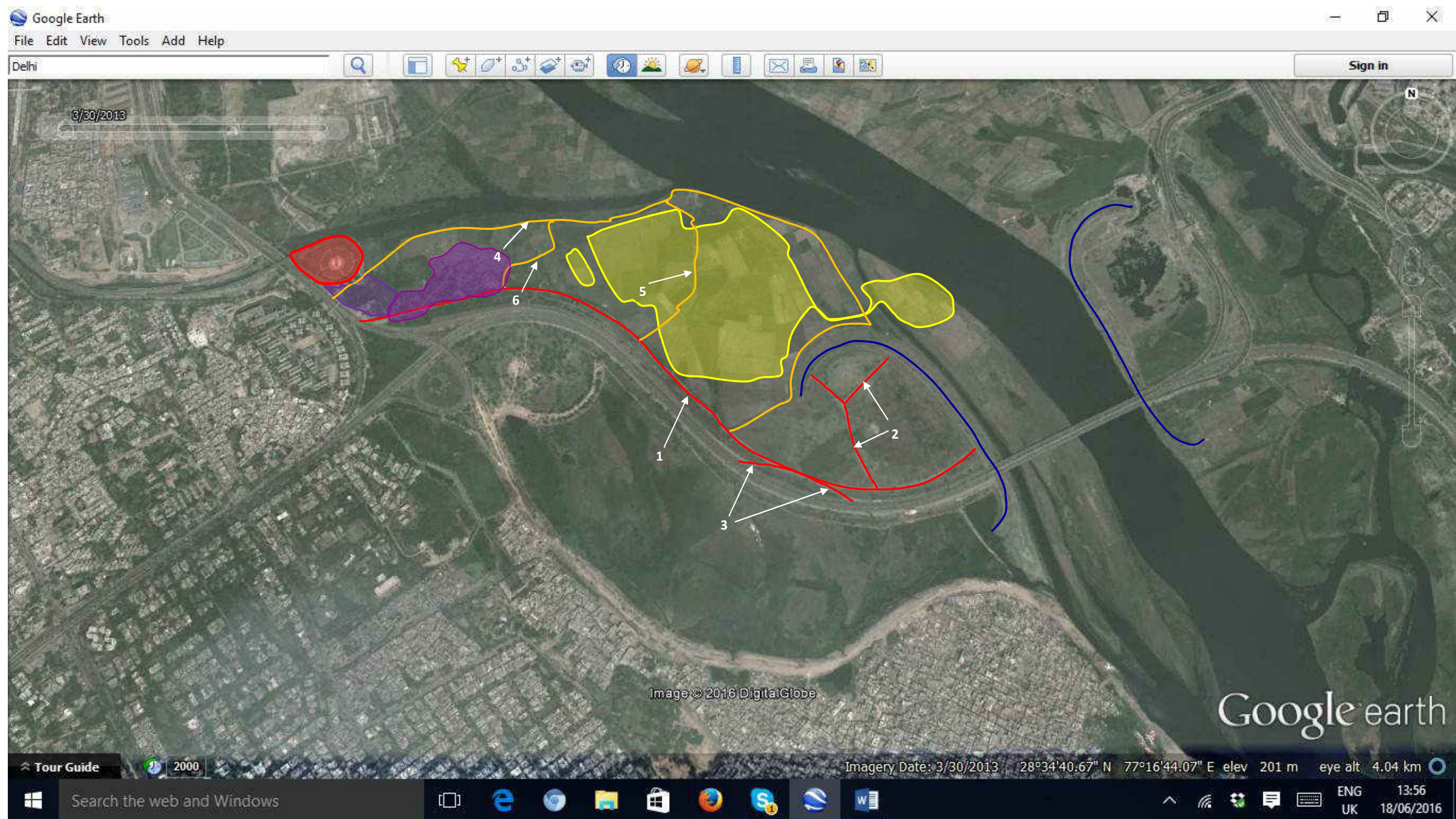
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Stabilised heaps of unsolicited dumps of construction debris; Fresh dumps of construction debris; Sun Dial;





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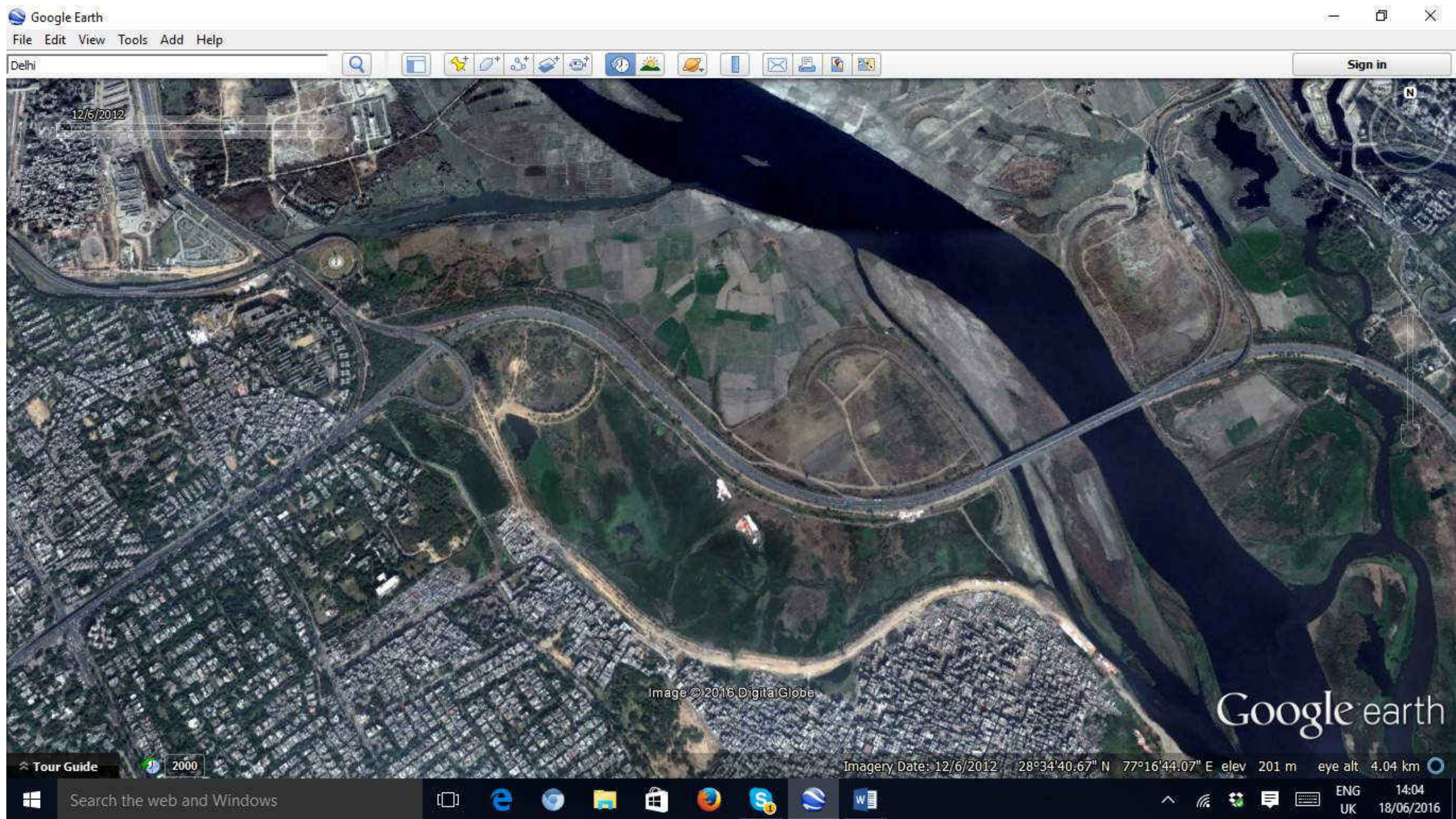
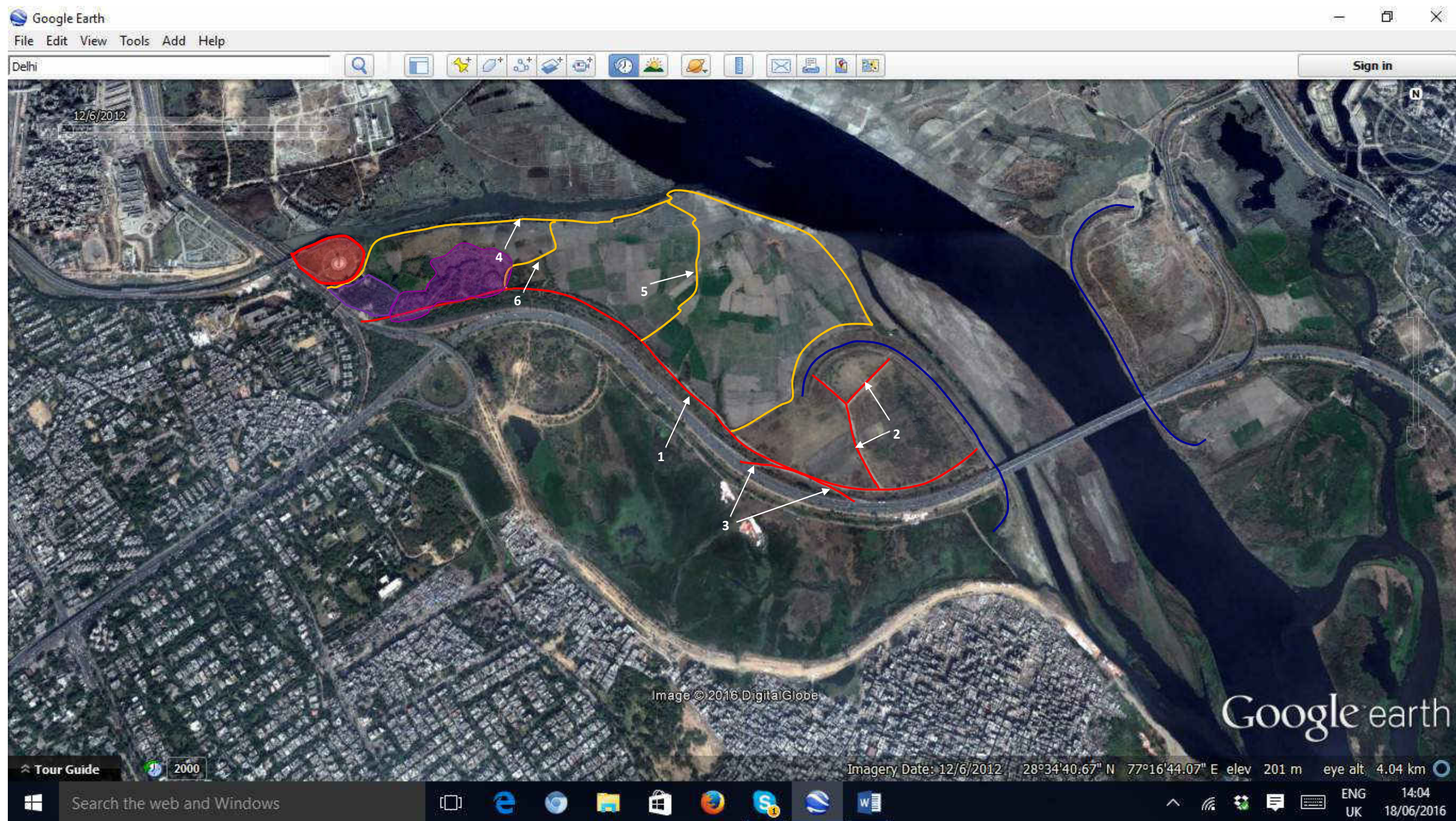


Image Date 06/12/2012 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





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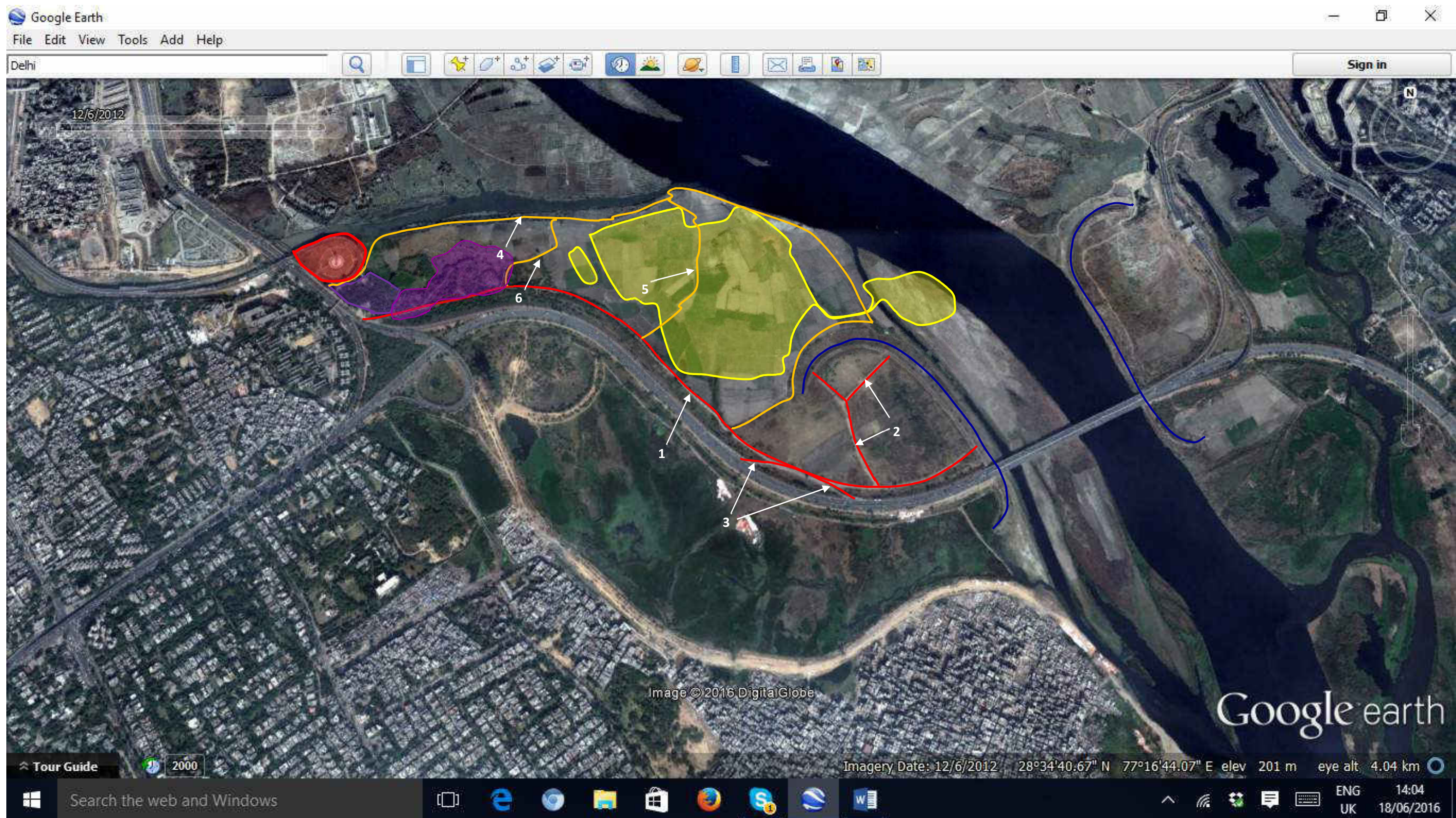
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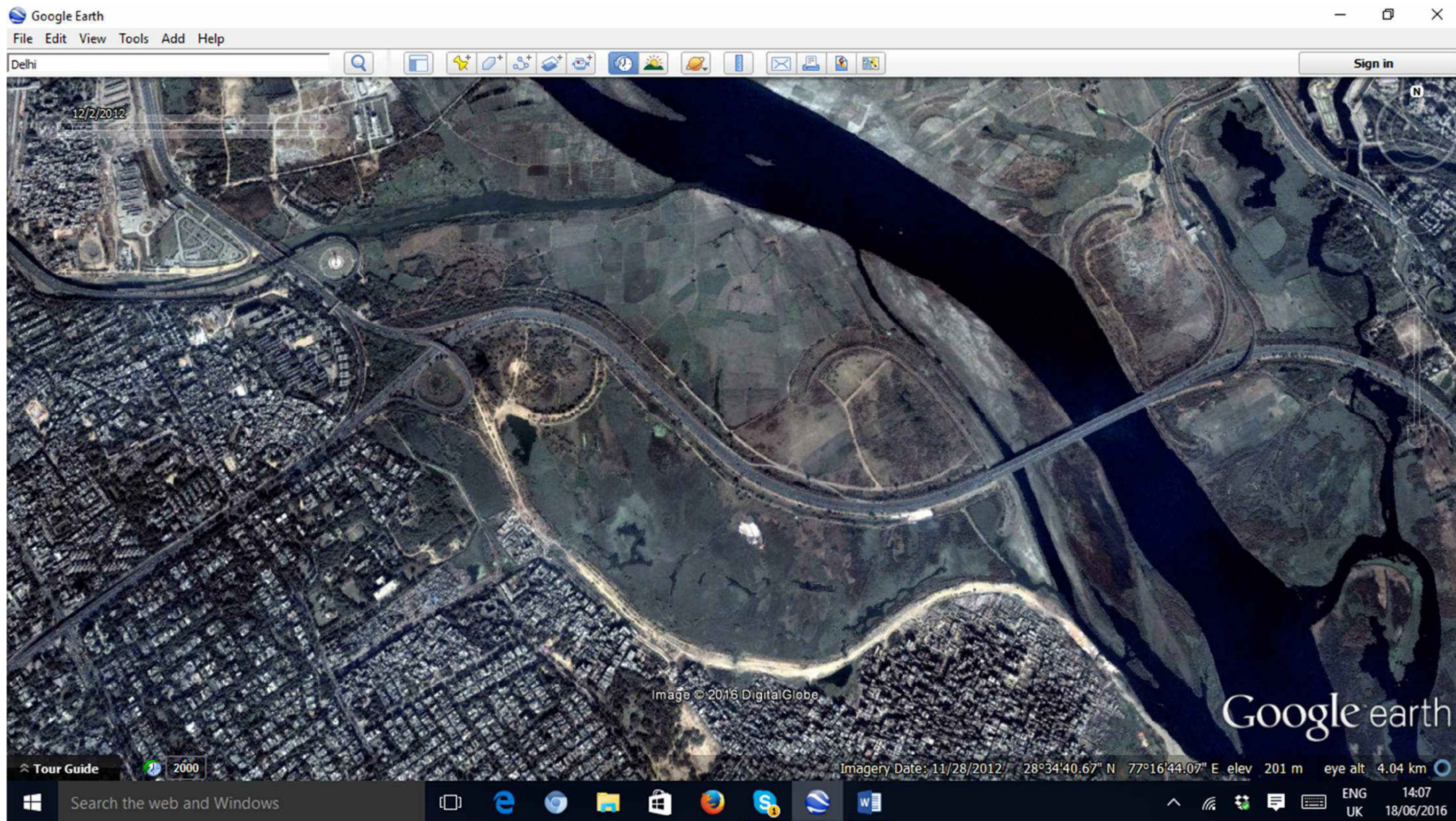
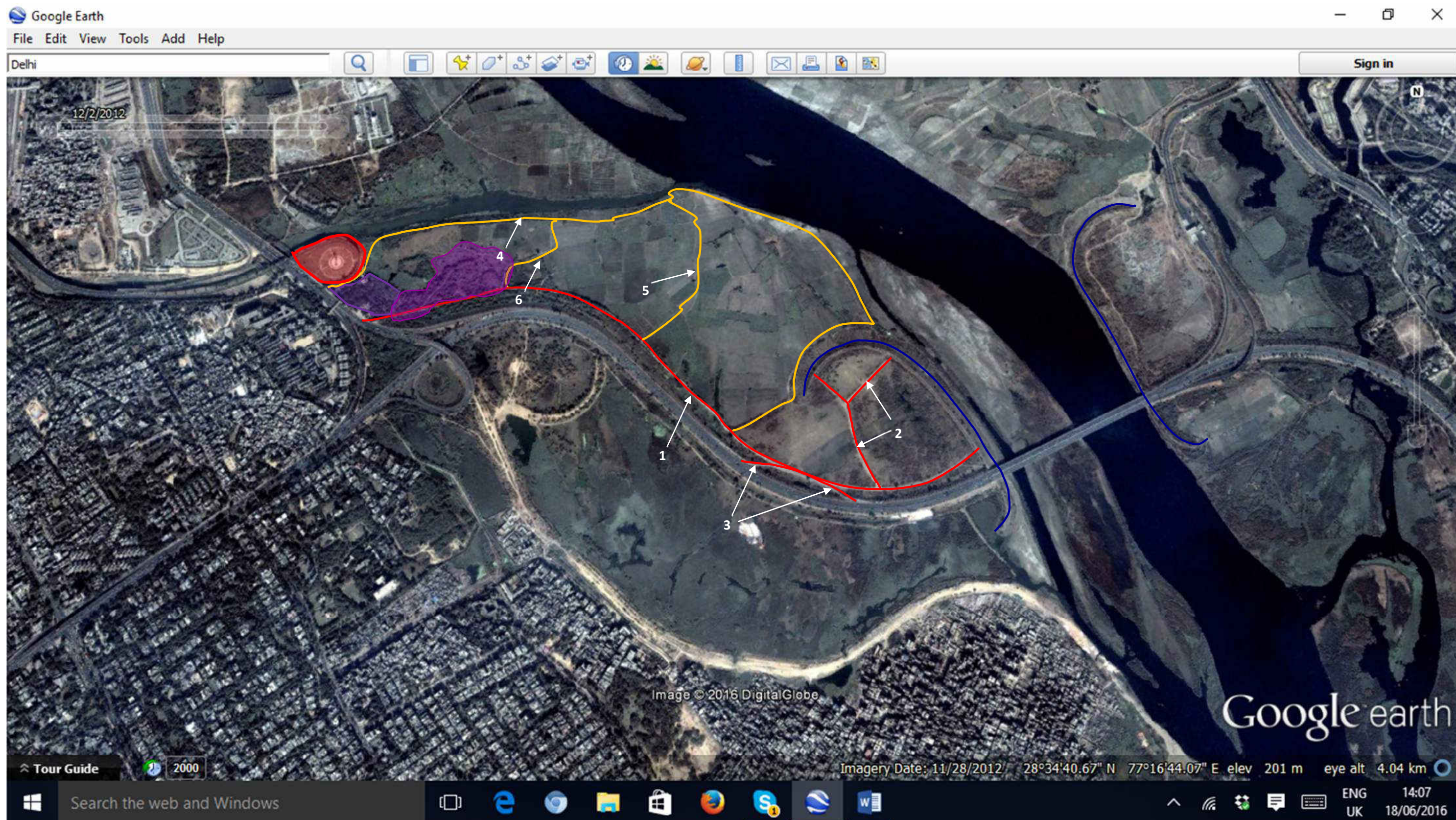


Image Date 28/11/2012 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





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Waterbody/Wetland in Existence Over Point Bar:




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(4) Unpaved Earthen Service Road used primarily by drain cleaning mobile equipment and earthmovers for removal of sludge from Barapullah drain.

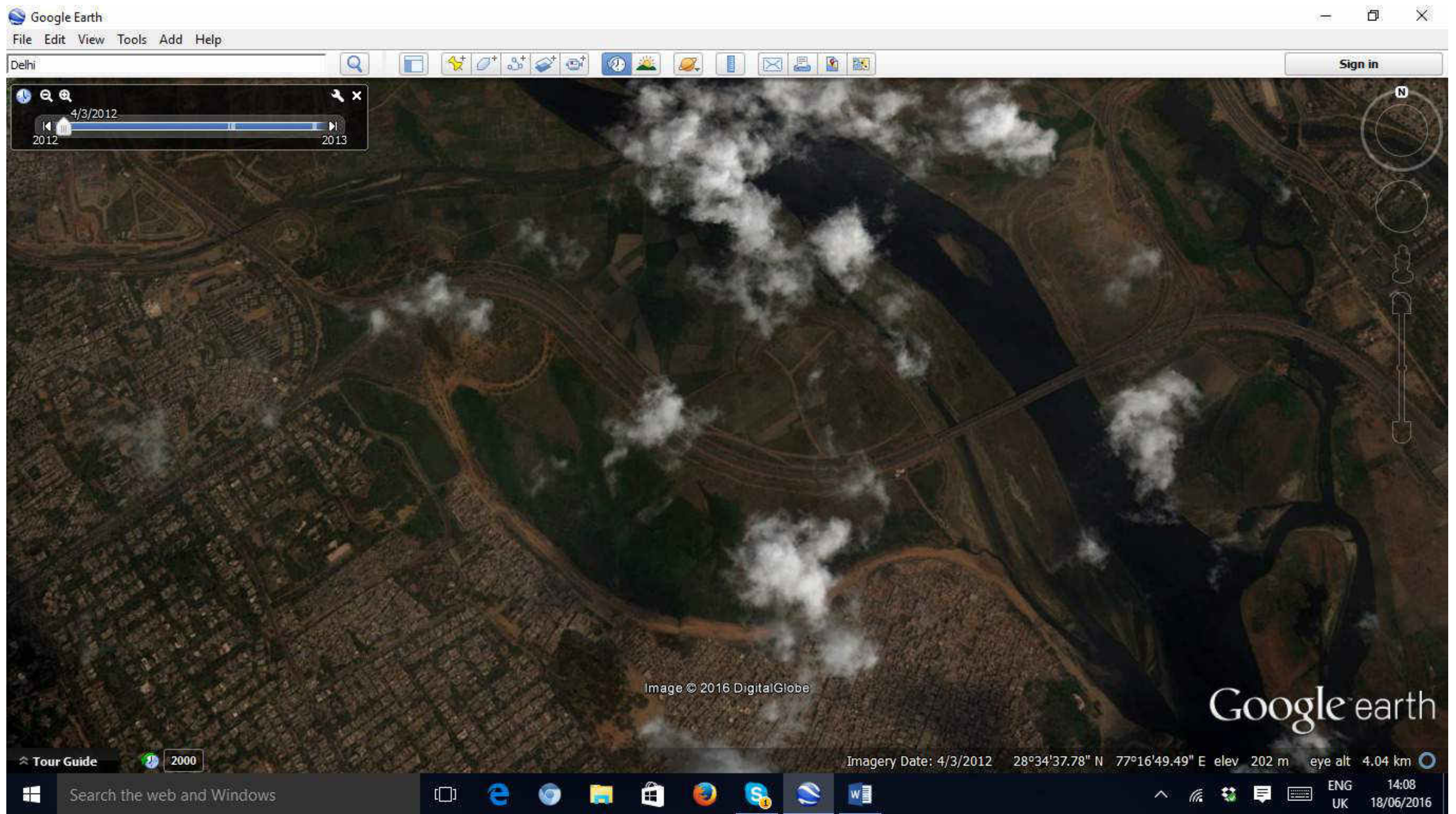
(5) & (6) Earthen Trails marked by movement of earthmovers; dumpers and tractors moving on this land parcel.

 Stabilised heaps of unsolicited dumps of construction debris;  Fresh dumps of construction debris;  Sun Dial;



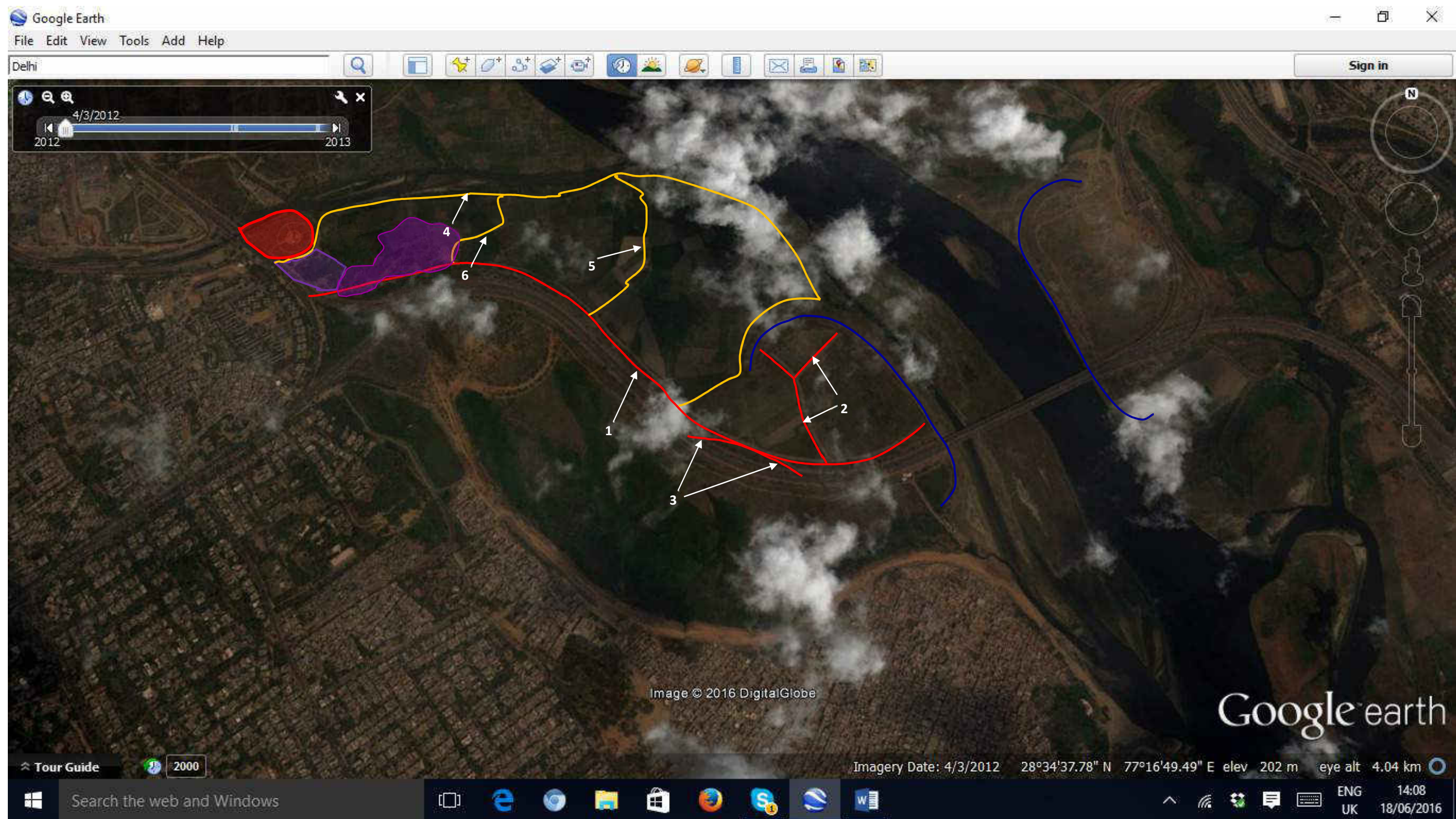






Screen Shot of Image Dated 03/04/2012 (Pre-monsoon); Depicting Cloudy Weather Over Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





**Image Dated 03/04/2012 (Pre-monsoon); Depicting Cloudy Weather Over Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

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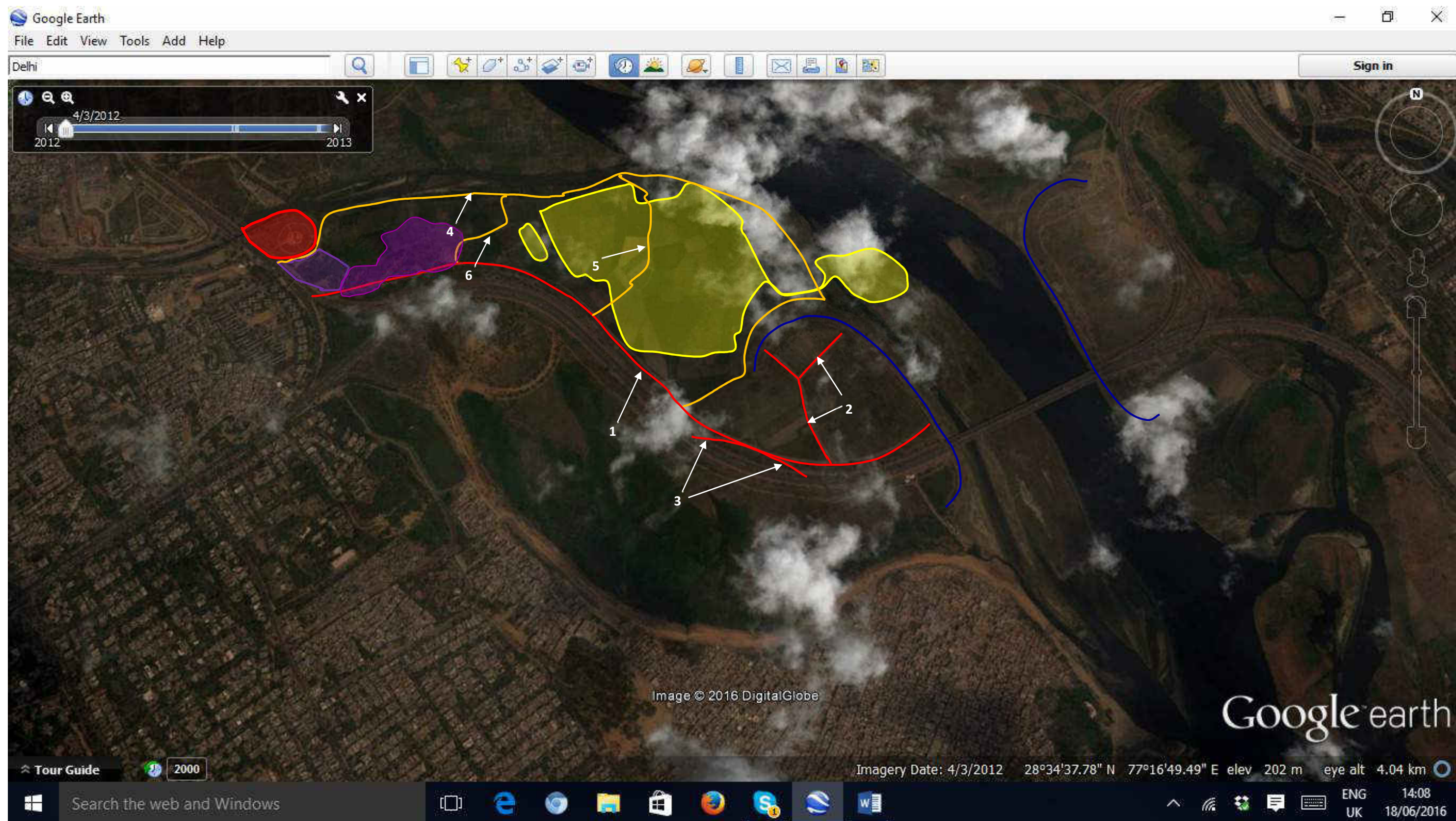
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**Image Dated 03/04/2012 (Pre-monsoon); Depicting Cloudy Weather Over Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

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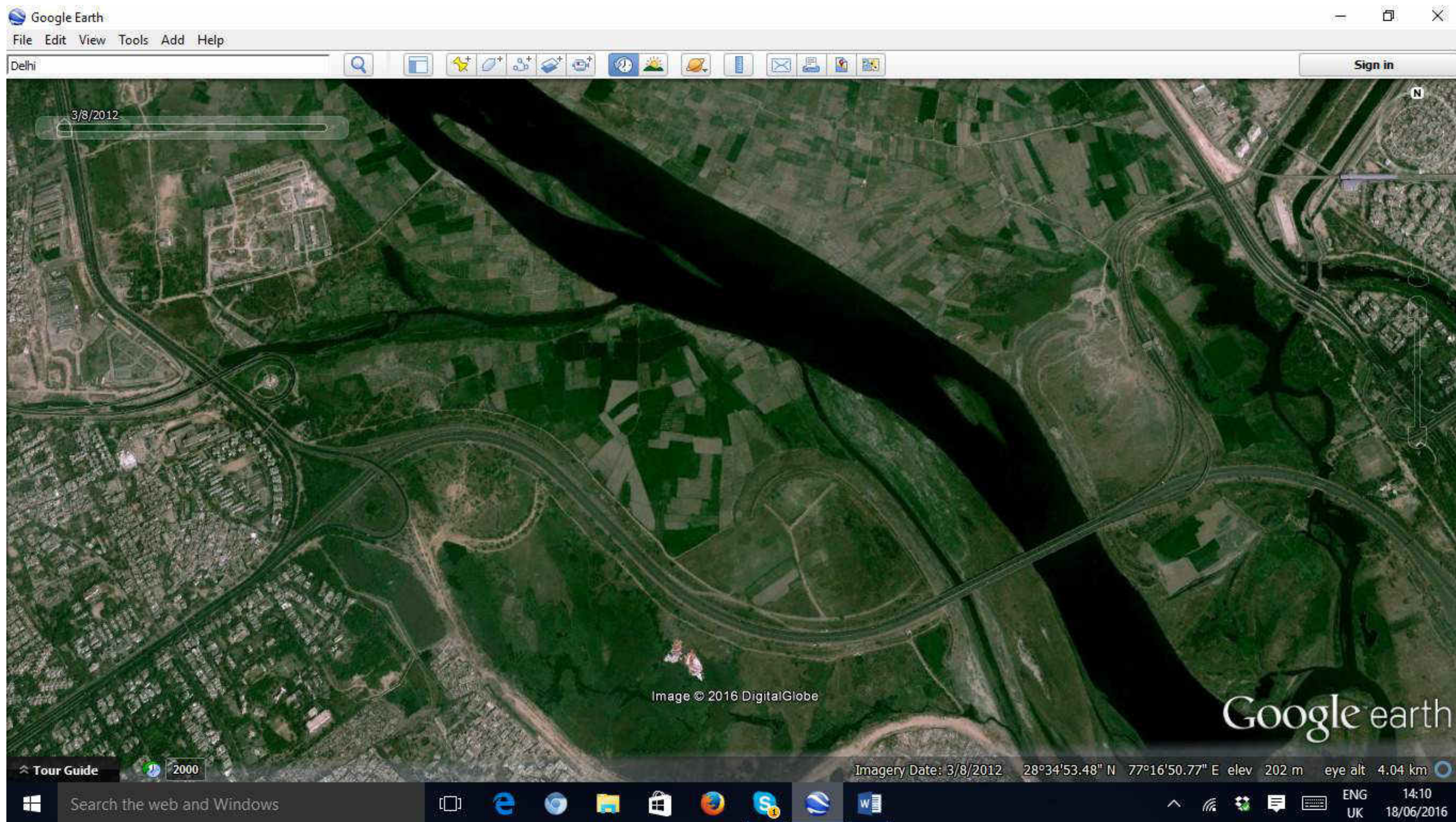
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Stabilised heaps of unsolicited dumps of construction debris; Fresh dumps of construction debris; Sun Dial;

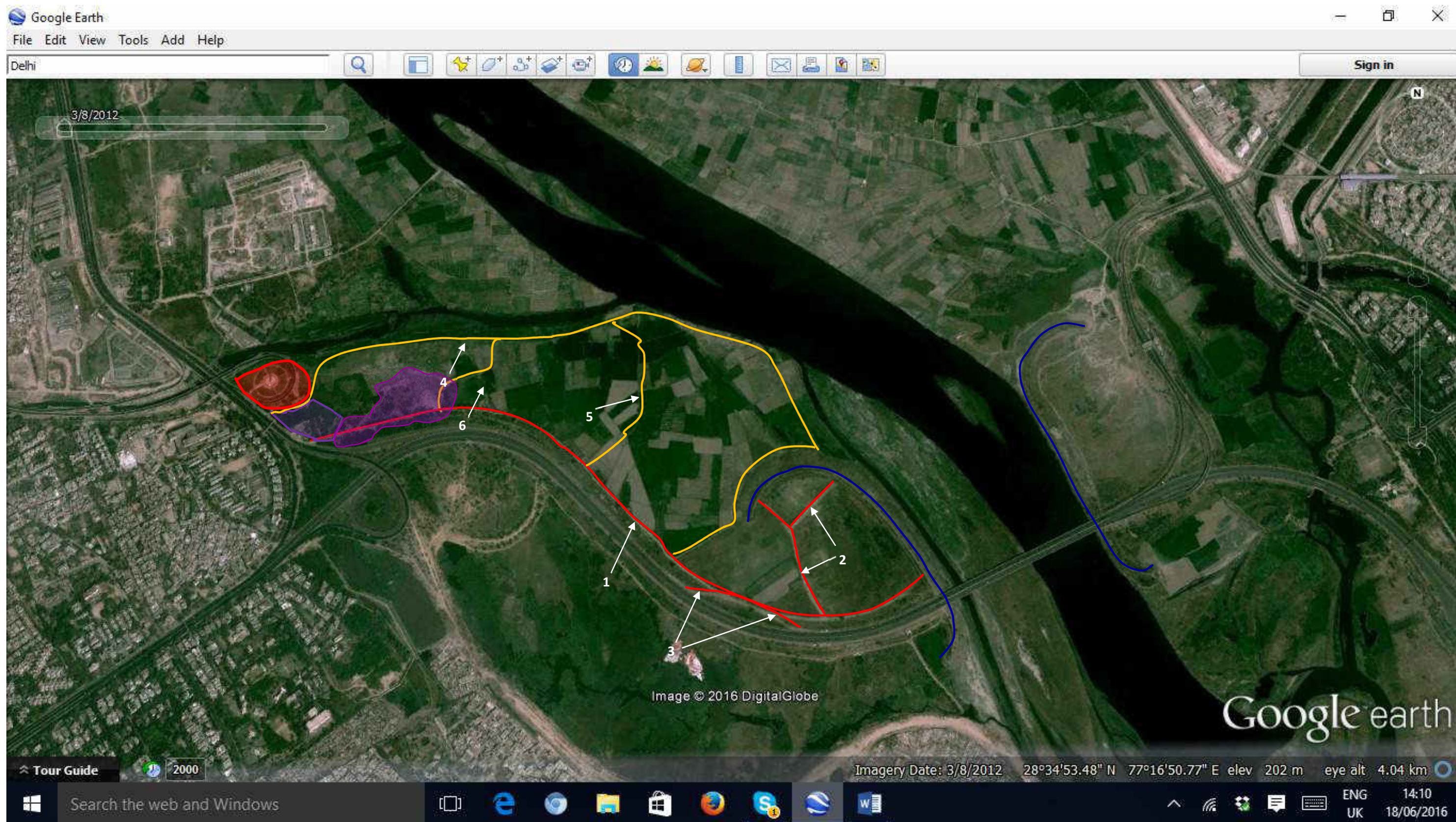
Area used for World Culture Festival 2016 of Art of Living Foundation/Vyakti Vikash Kendra.





Screen Shot of Image Dated 08/03/2012 (Pre-monsoon); Depicting Cloudy Weather Over Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





**Image Dated 08/03/2012 (Pre-monsoon); Depicting Cloudy Weather Over Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

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(5) & (6) Earthen Trails marked by movement of earthmovers; dumpers and tractors moving on this land parcel.

Stabilised heaps of unsolicited dumps of construction debris; Fresh dumps of construction debris; Sun Dial.





**Image Dated 08/03/2012 (Pre-monsoon); Depicting Cloudy Weather Over Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

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Stabilised heaps of unsolicited dumps of construction debris; Fresh dumps of construction debris; Sun Dial;

Area used for World Culture Festival 2016 of Art of Living Foundation/Vyakti Vikash Kendra.



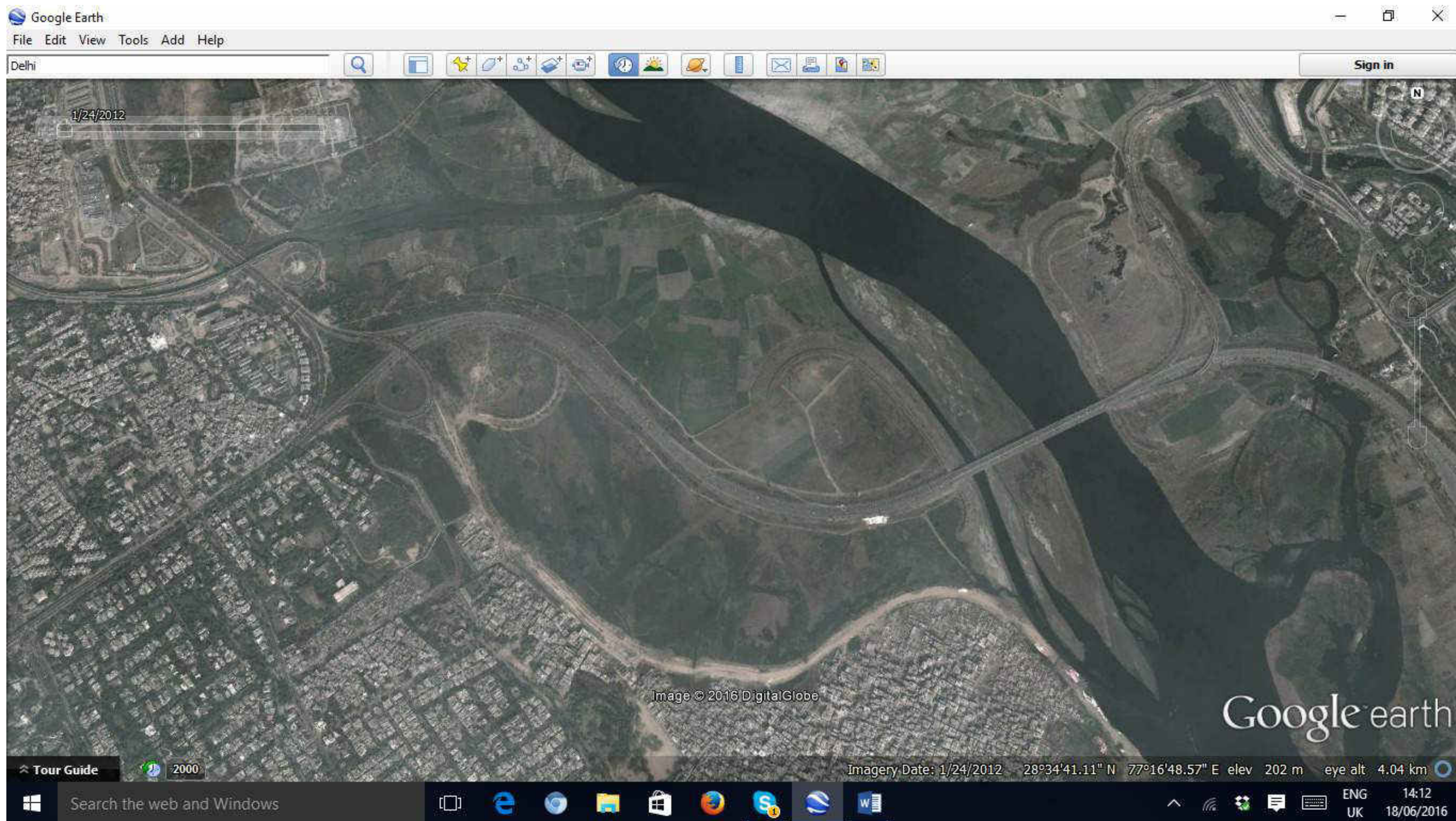
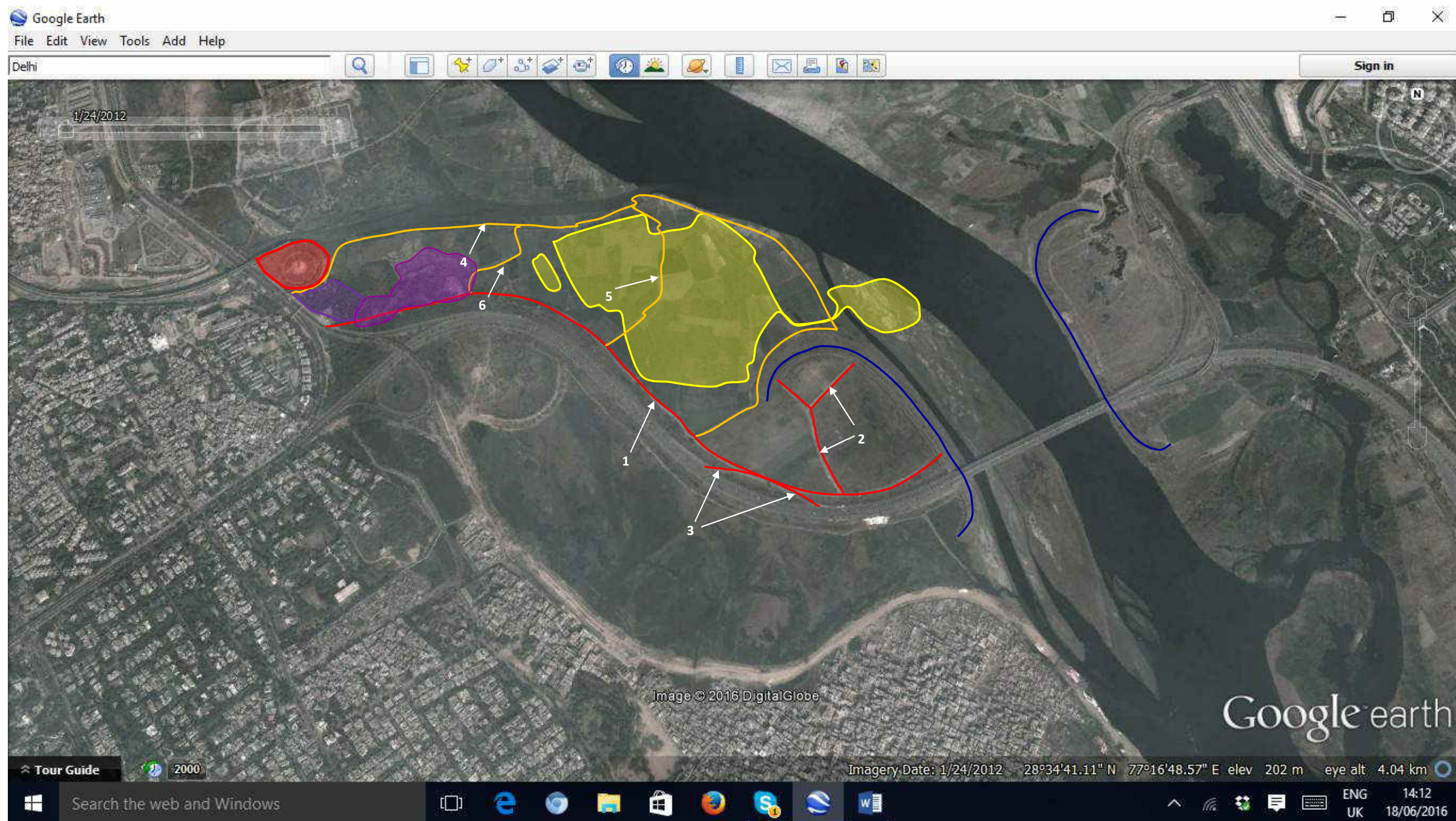


Image Date 24/01/2012 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.









Waterbury Point Observation: (1) Gravel Road (Now Partially paved by bituminous Overlay) parallel to DND Flyway. This earthen road was initially constructed to facilitate construction of DND flyway; movement of earthmovers and construction vehicles etc. This road is in existence since then and is still in use for movement of farm equipment (tractors); construction industry vehicles like dumpers, loaders and trucks etc.

(3) Ramps with Bituminous Pavement linking DND Flyway and the Gravel Road (1).

(5) & (6) Earthen Trails marked by movement of earthmovers; dumpers and tractors moving on this land parcel.

Area used for World Culture Festival 2016 of Art of Living Foundation/Vyakti Vikash Kendra.



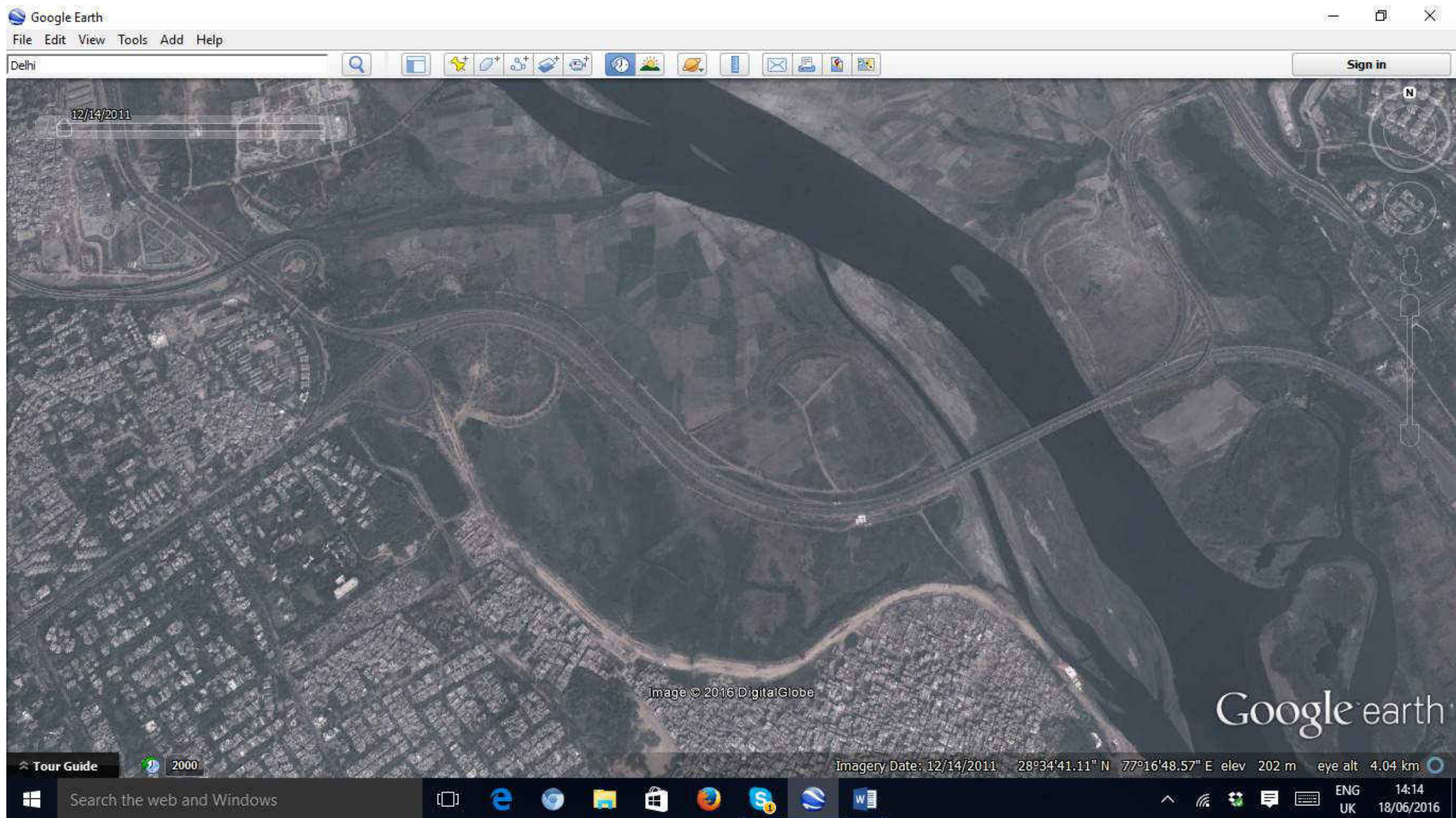
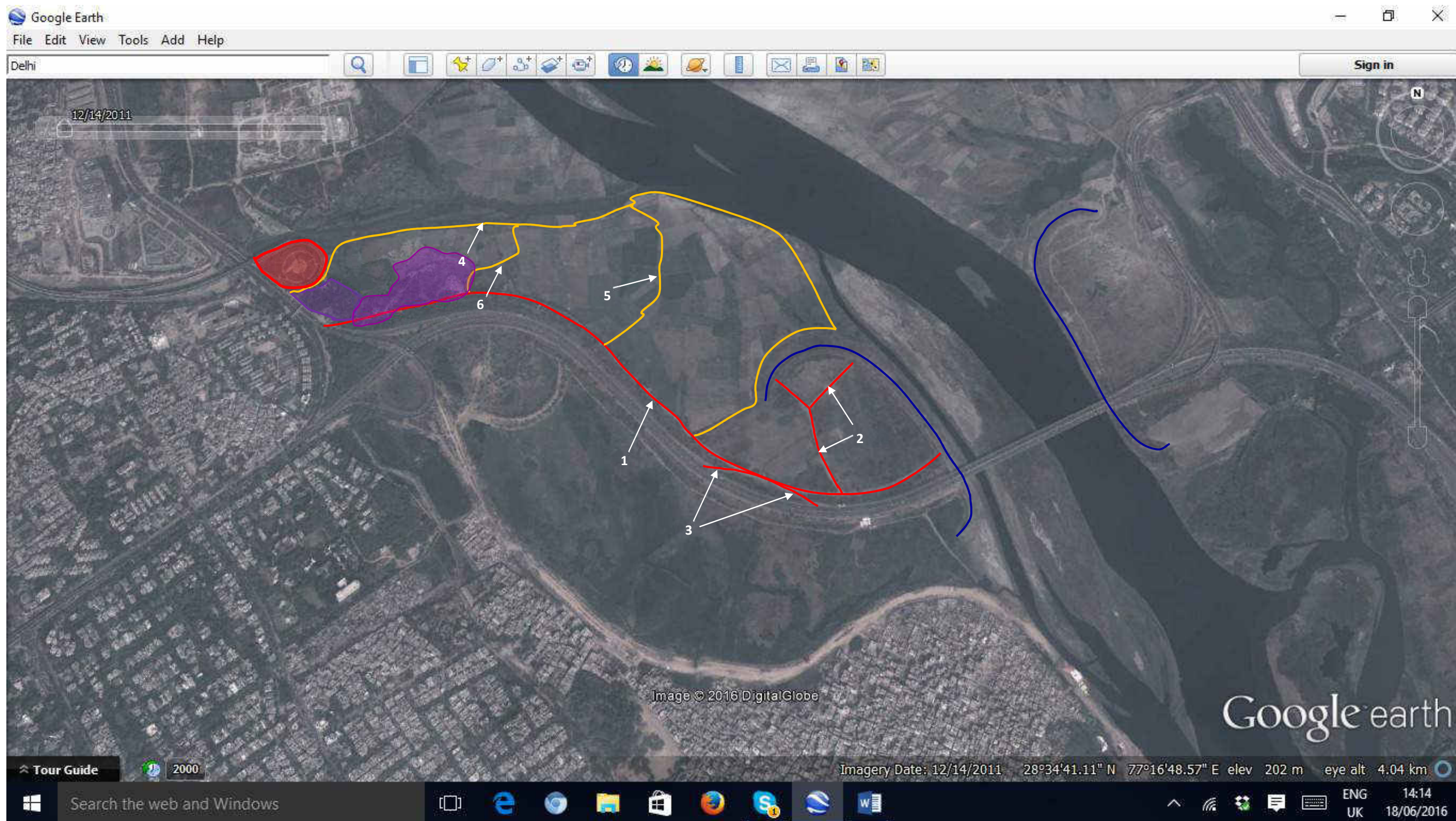


Image Date 14/12/2011 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





**Image Date 14/12/2011 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

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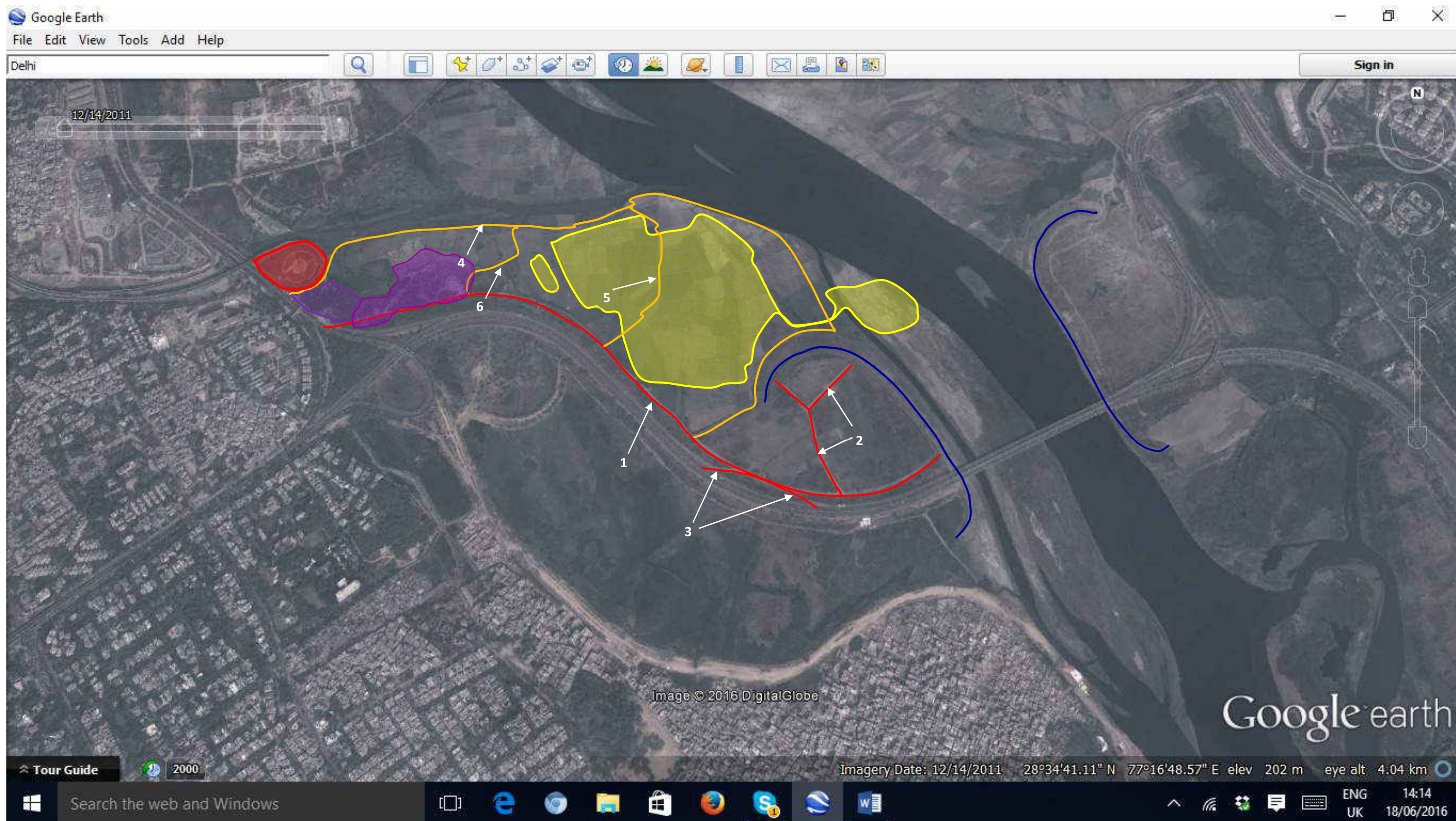
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(4) Unpaved Earthen Service Road used primarily by drain cleaning mobile equipment and earthmovers for removal of sludge from Barapullah drain.

(5) & (6) Earthen Trails marked by movement of earthmovers; dumpers and tractors moving on this land parcel.

Stabilised heaps of unsolicited dumps of construction debris; Fresh dumps of construction debris; Sun Dial;





**Image Date 14/12/2011 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

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Area used for World Culture Festival 2016 of Art of Living Foundation/Vyakti Vikash Kendra.



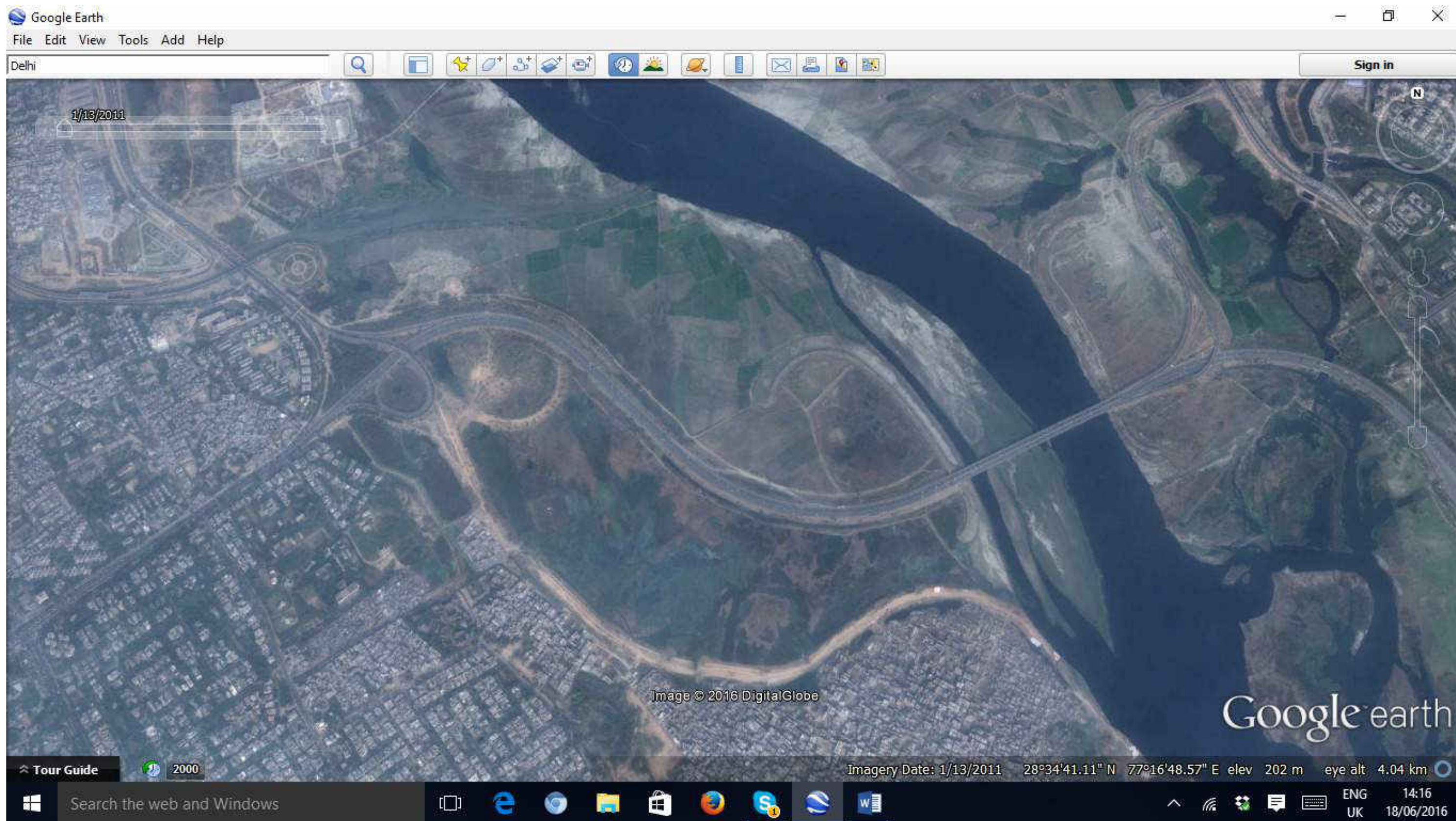
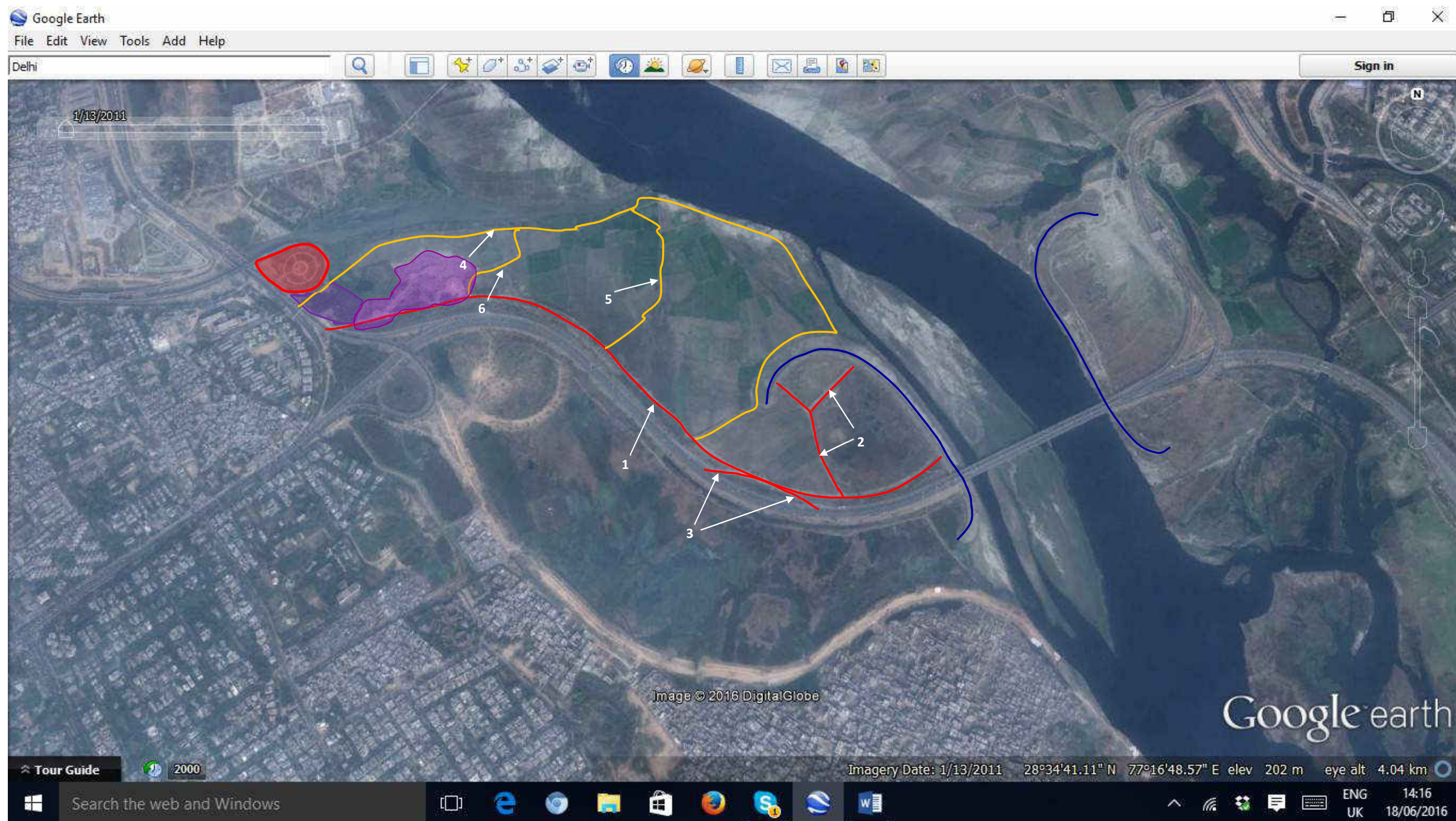


Image Date 13/01/2011 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





**Image Date 13/01/2011 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

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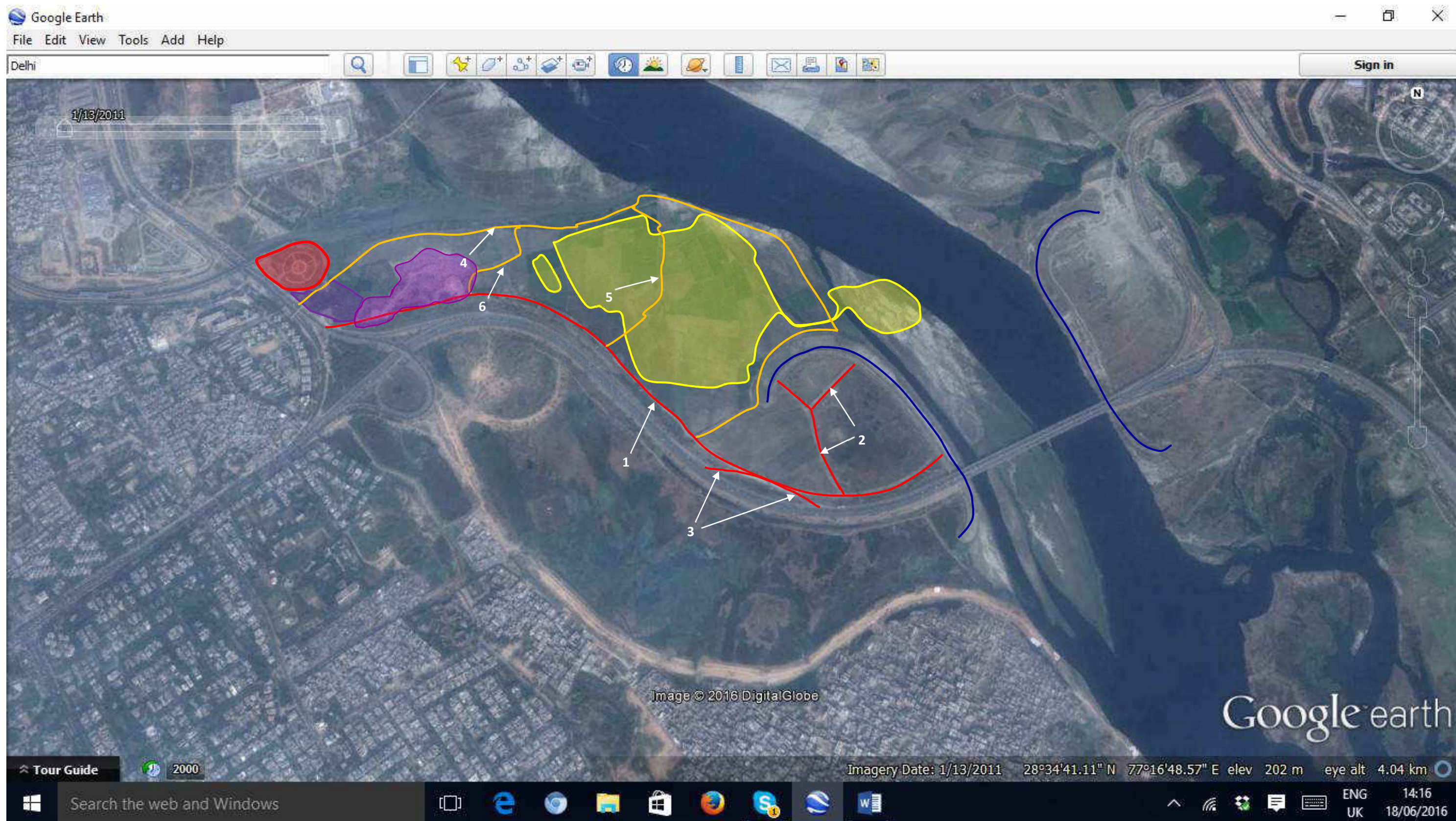
(3) Ramps with Bituminous Pavement linking DND Flyway and the Gravel Road (1).

(4) Unpaved Earthen Service Road used primarily by drain cleaning mobile equipment and earthmovers for removal of sludge from Barapullah drain.

(5) & (6) Earthen Trails marked by movement of earthmovers; dumpers and tractors moving on this land parcel.

Stabilised heaps of unsolicited dumps of construction debris; Fresh dumps of construction debris; Sun Dial;





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Area used for World Culture Festival 2016 of Art of Living Foundation/Vyakti Vikash Kendra.



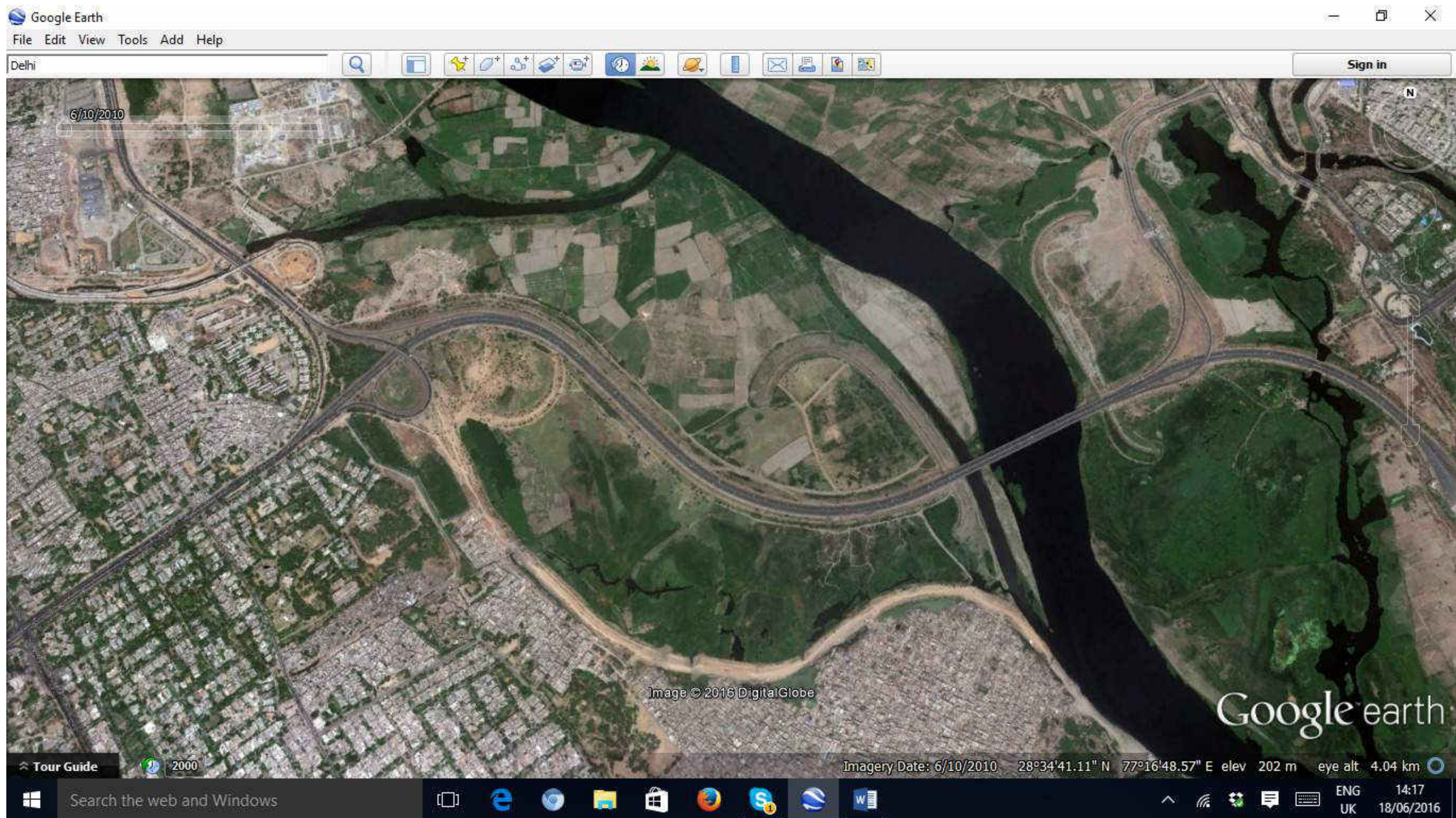
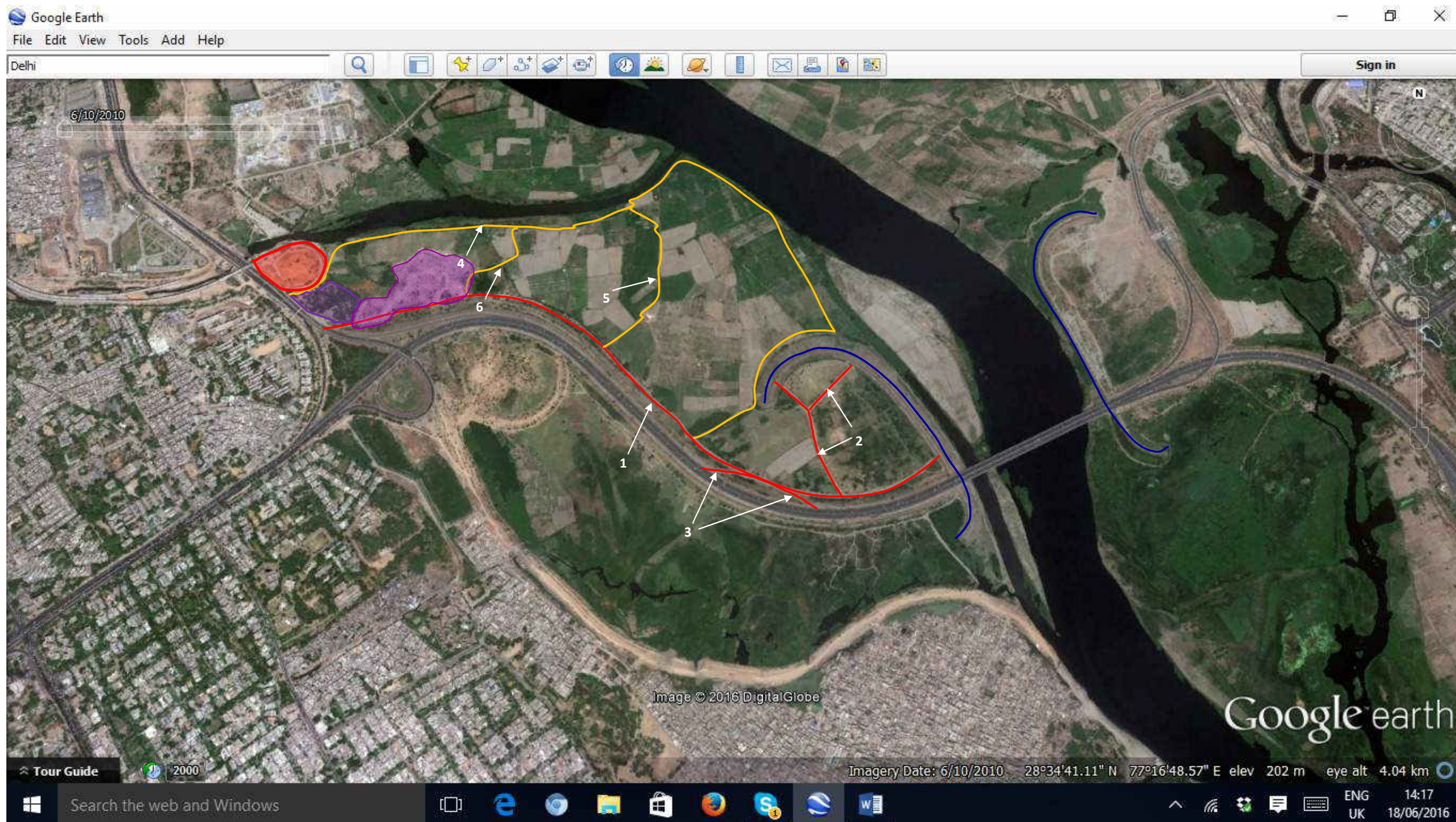


Image Date 10/06/2010 (Pre-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





**Image Date 10/06/2010 (Pre-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

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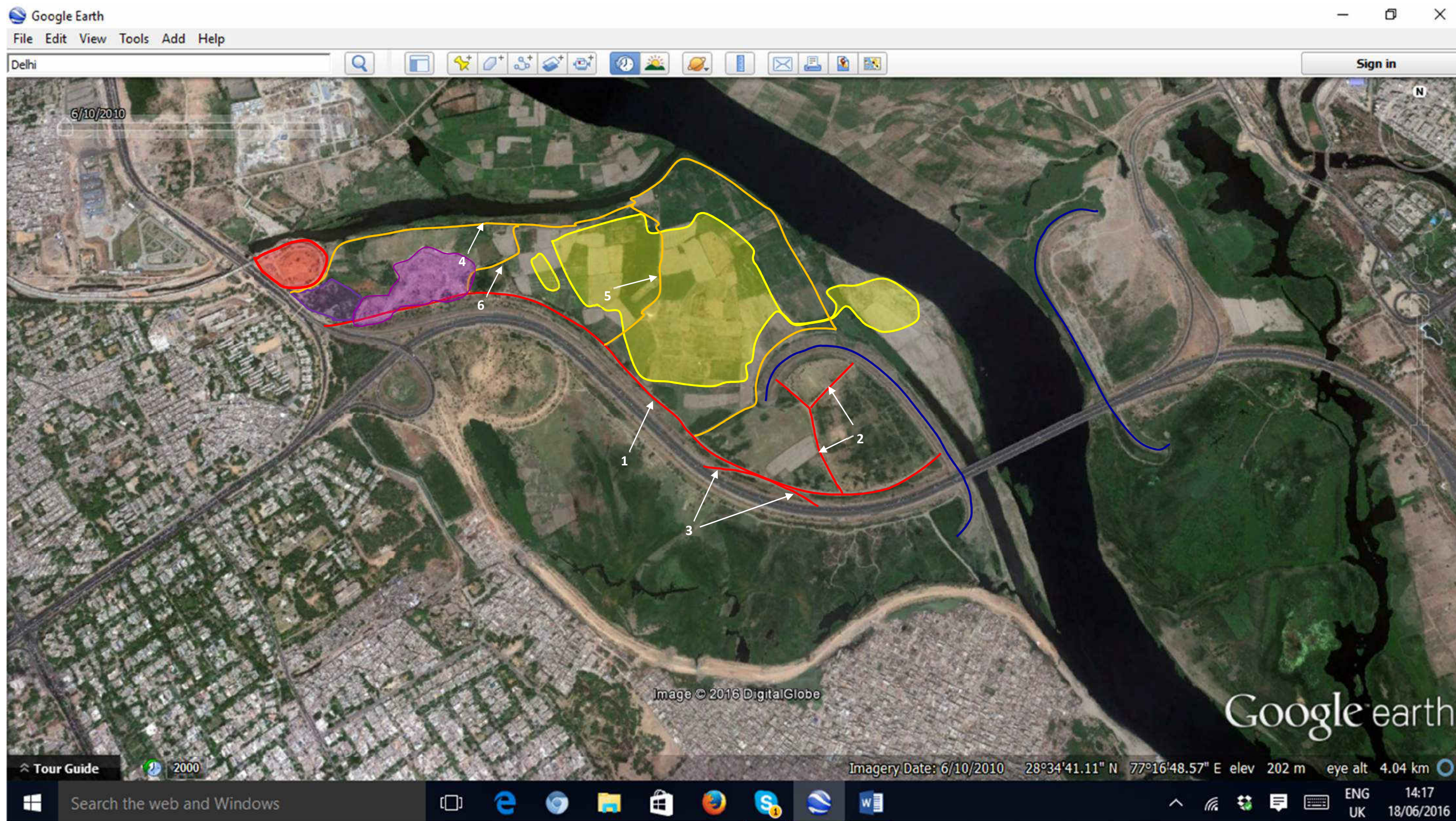
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(5) & (6) Earthen Trails marked by movement of earthmovers; dumpers and tractors moving on this land parcel.

Stabilised heaps of unsolicited dumps of construction debris; Fresh dumps of construction debris; Construction work in Progress for Sun Dial.





**Image Date 10/06/2010 (Pre-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

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Area used for World Culture Festival 2016 of Art of Living Foundation/Vyakti Vikash Kendra.



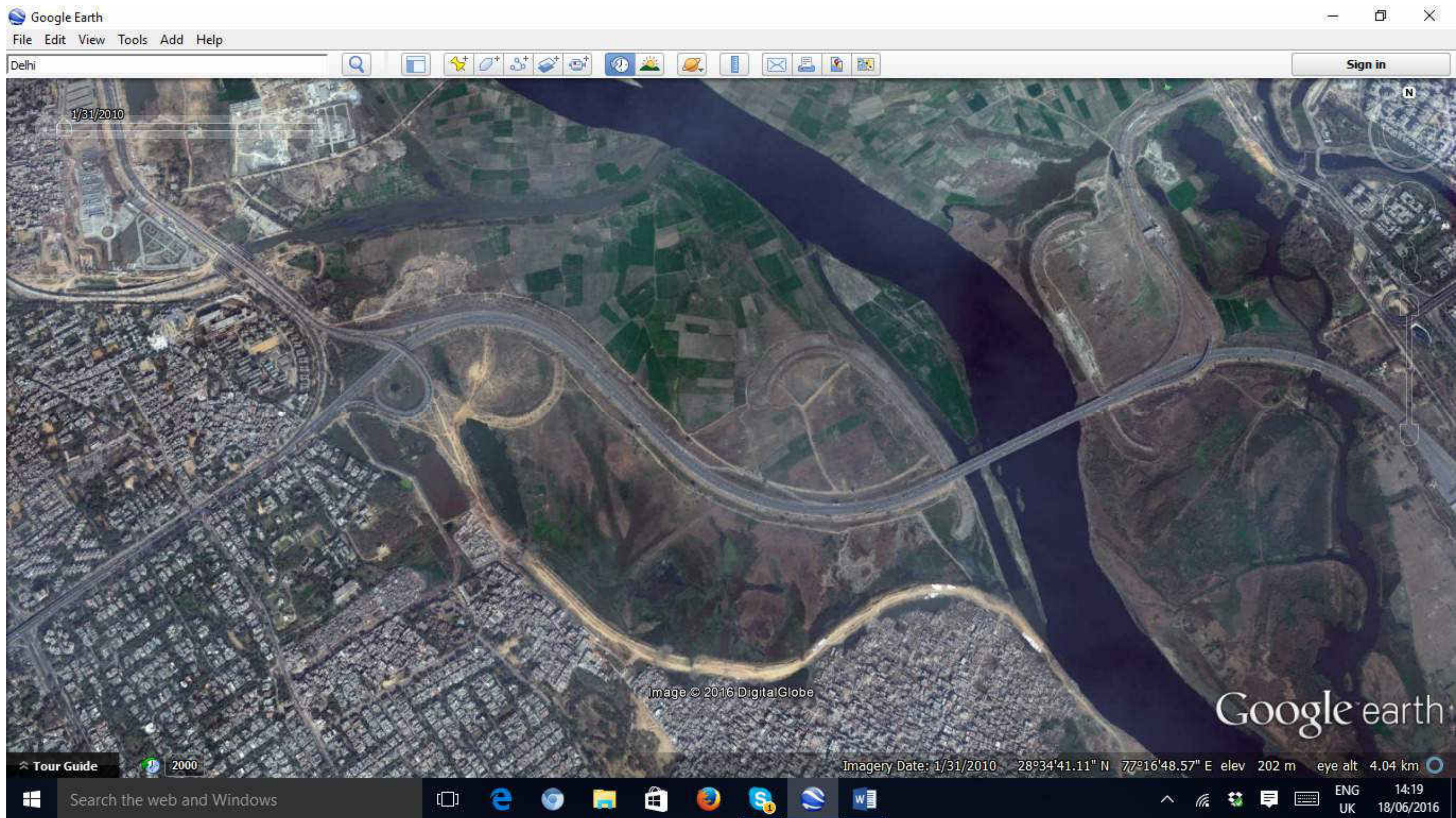
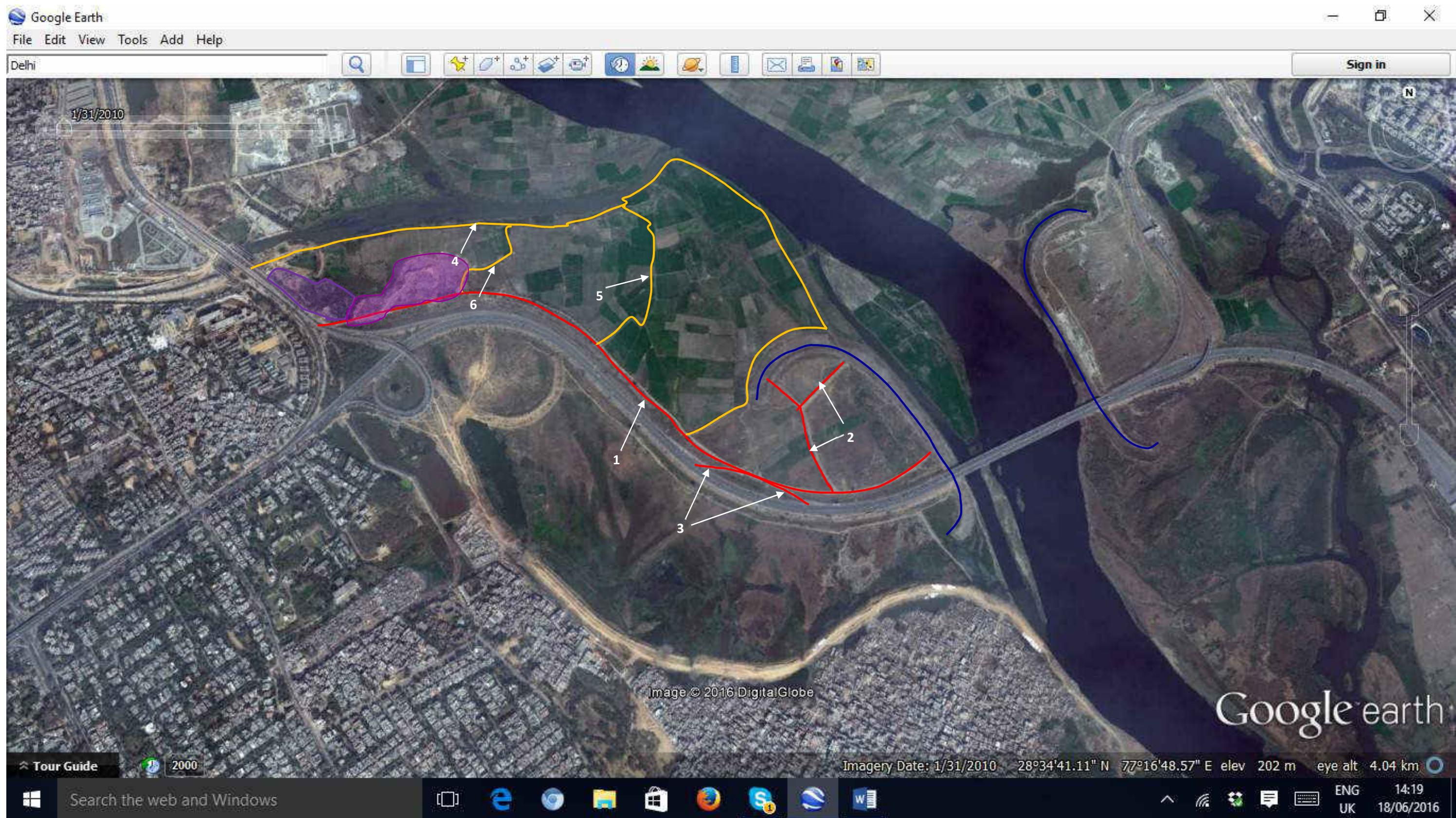


Image Date 31/01/2010 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





**Image Date 31/01/2010 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

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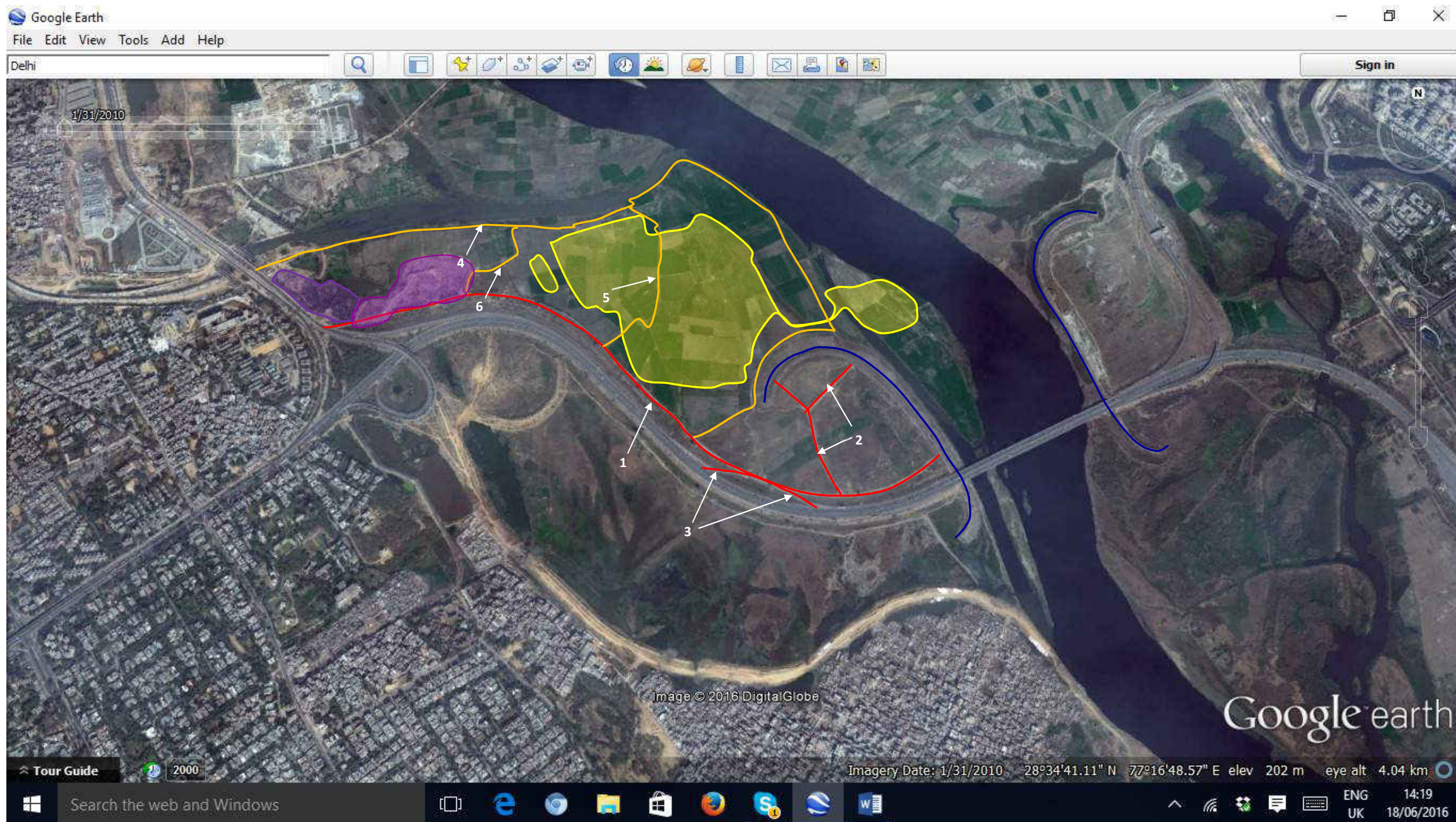
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Stabilised heaps of unsolicited dumps of construction debris; Fresh dumps of construction debris.





**Image Date 31/01/2010 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

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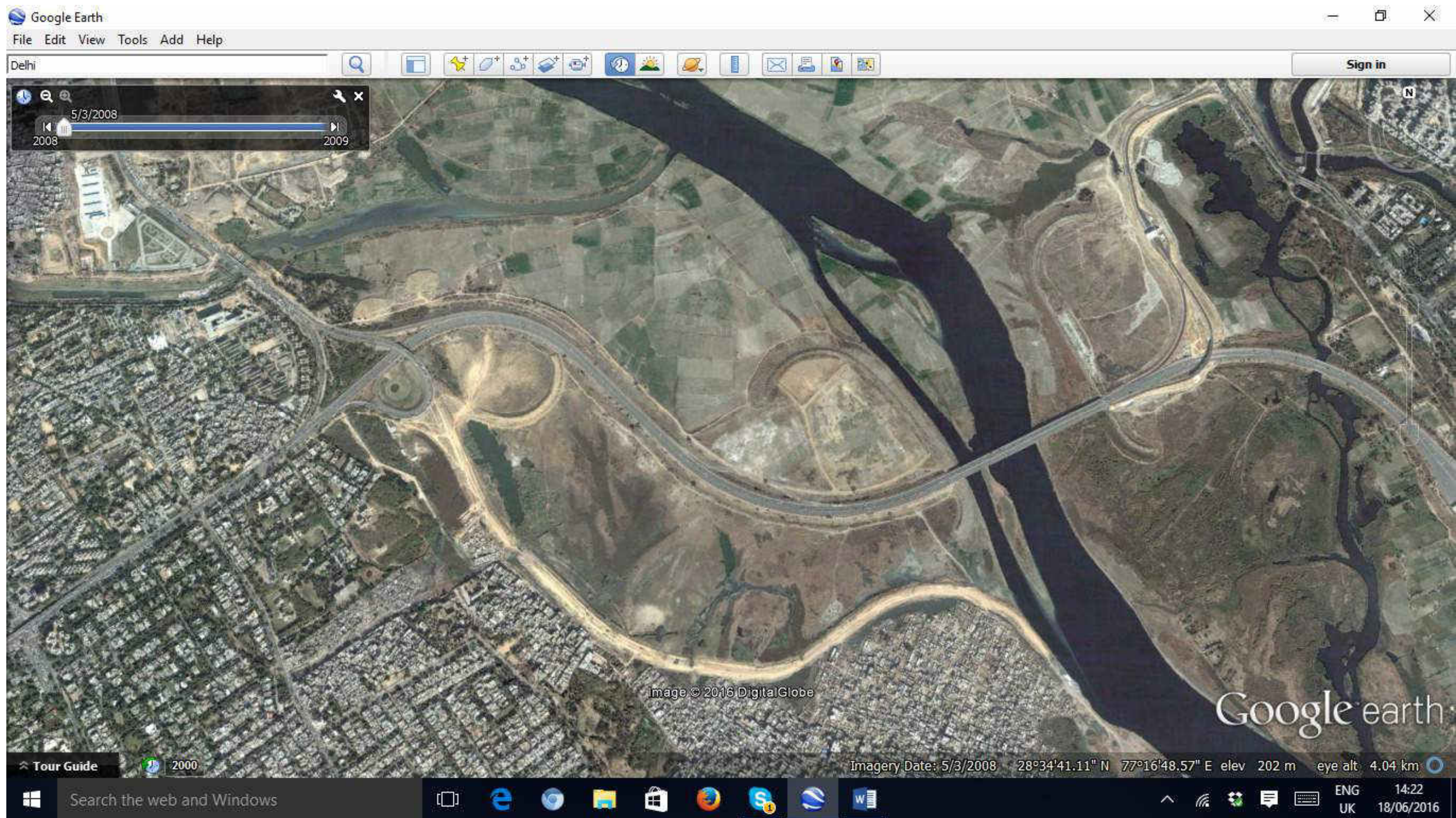
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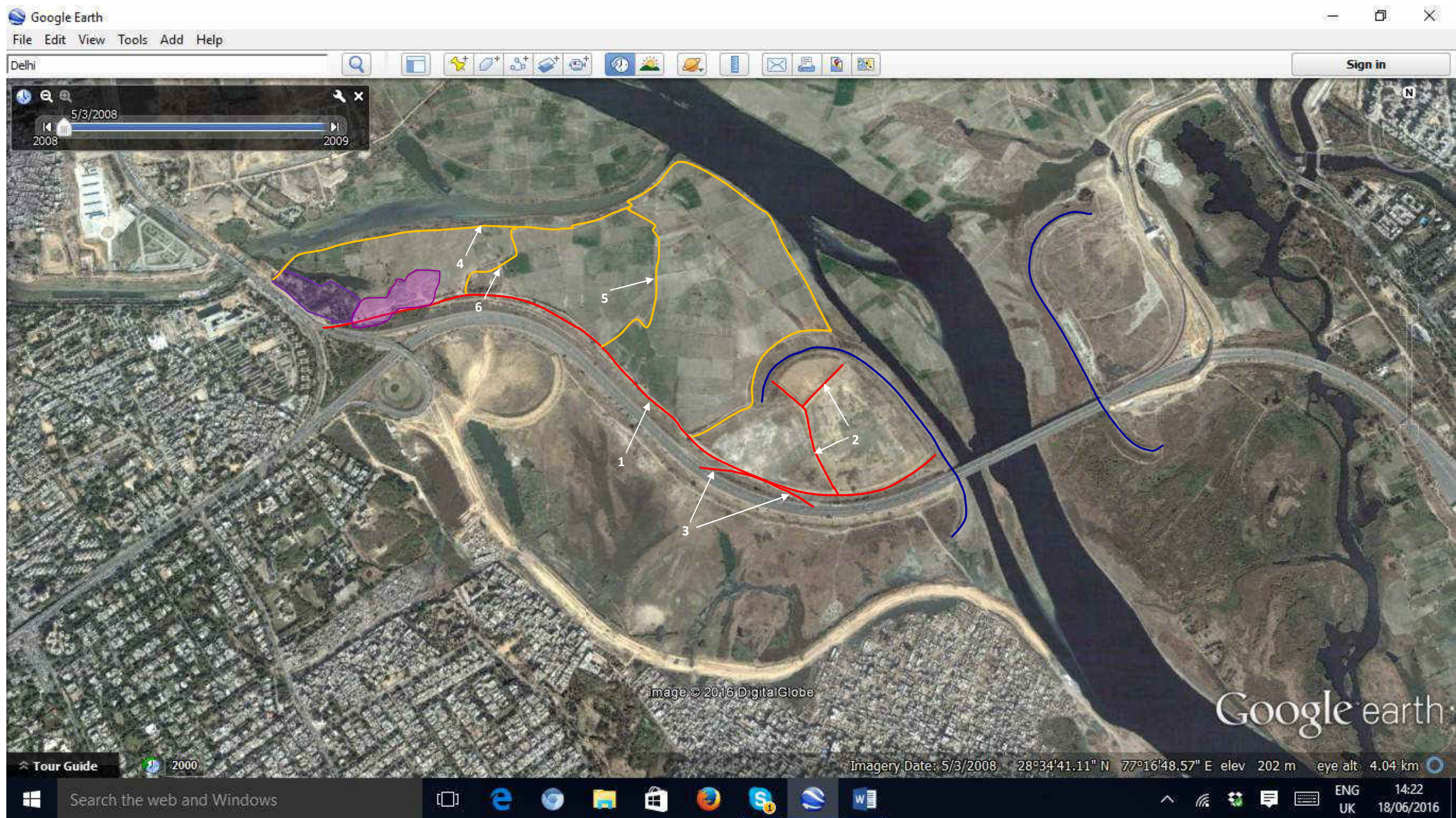
Stabilised heaps of unsolicited dumps of construction debris; Fresh dumps of construction debris; Area used for World Culture Festival 2016 of Art of Living Foundation/Vyakti Vikash Kendra.





Screen Shot Image Date 03/05/2008 (Pre-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





**Image Date 03/05/2008 (Pre-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

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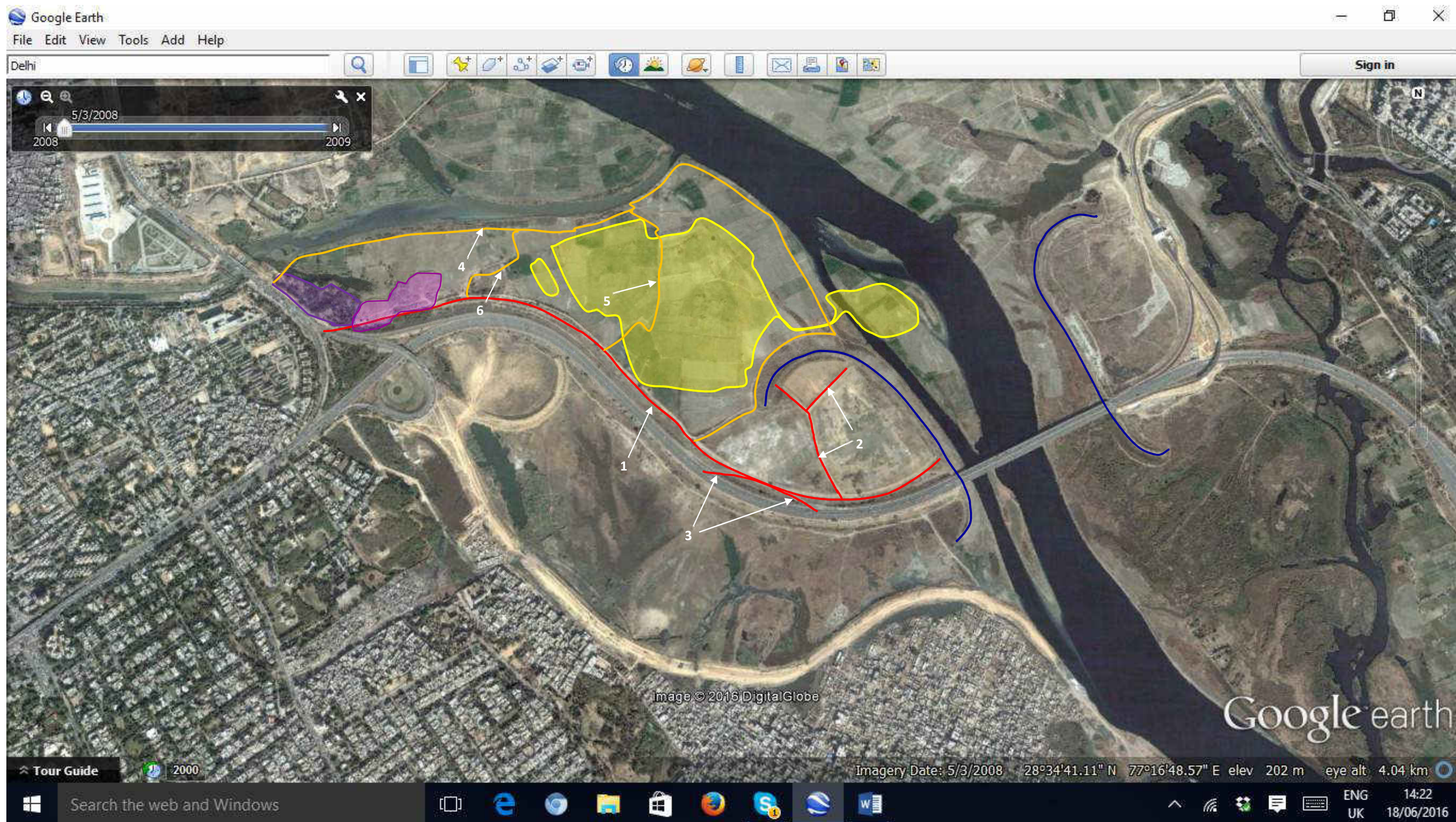
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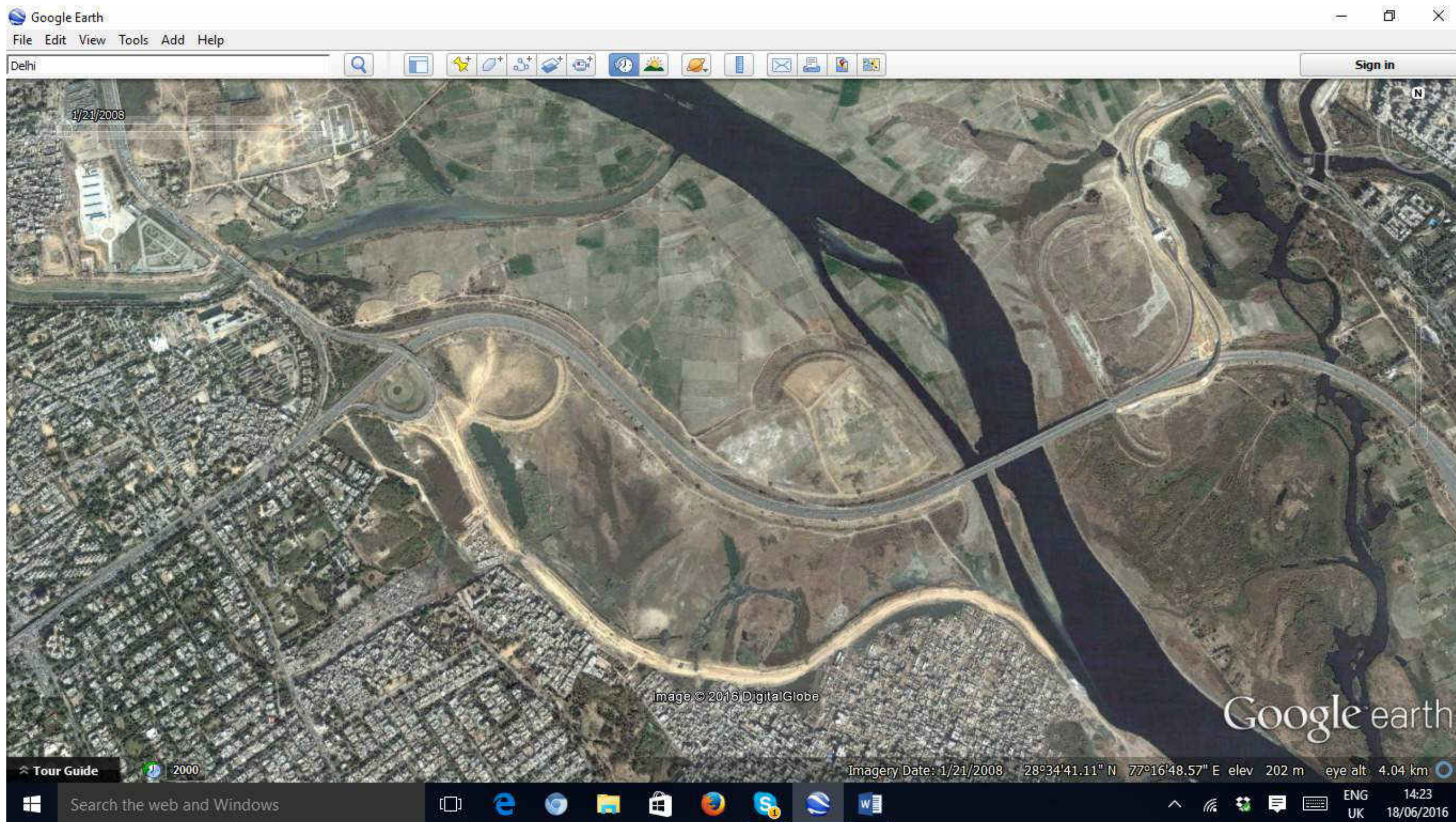
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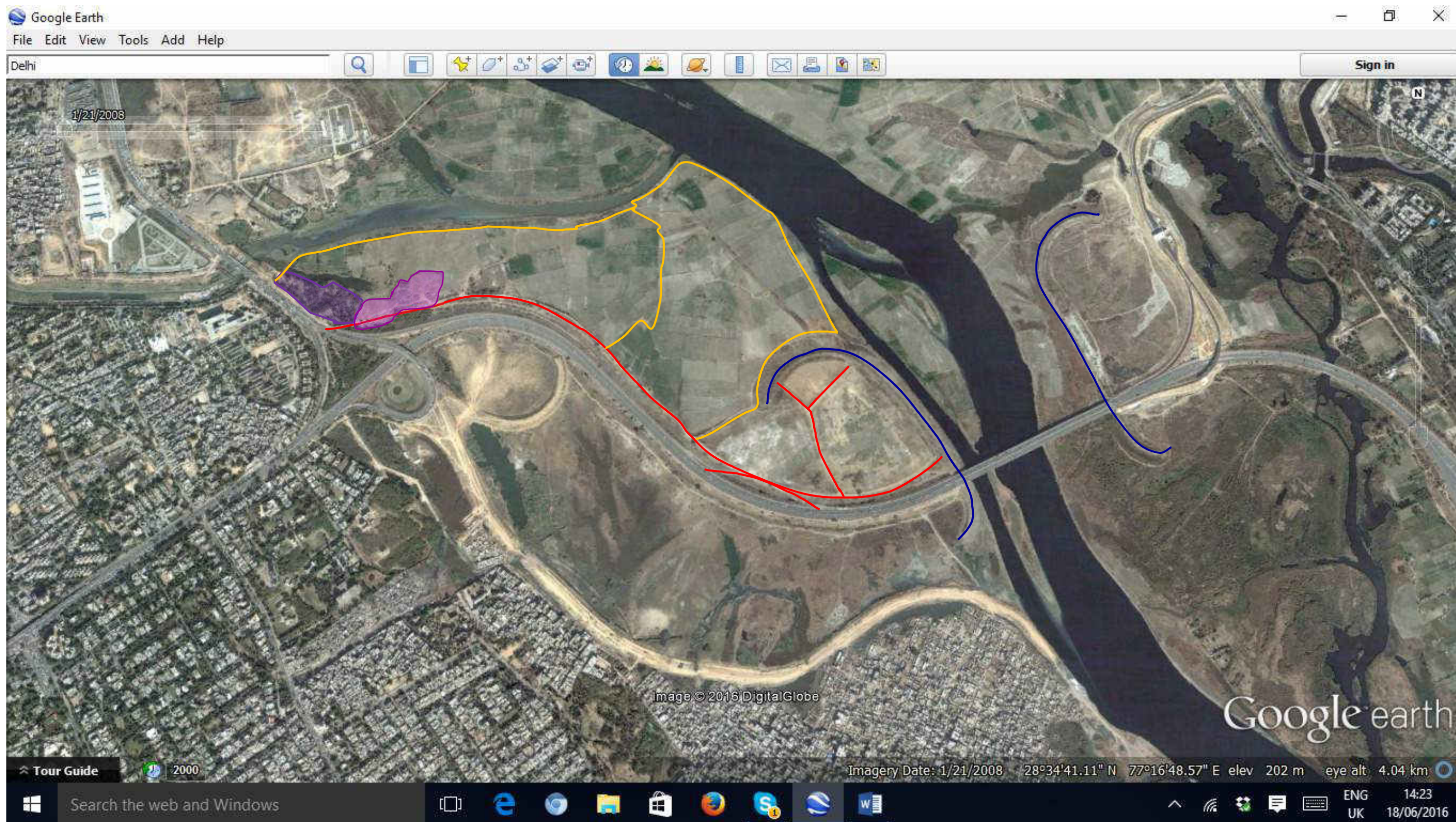
Stabilised heaps of unsolicited dumps of construction debris; Fresh dumps of construction debris; Area used for World Culture Festival 2016 of Art of Living Foundation/Vyakti Vikash Kendra.





Screen Shot Image Date 21/01/2008 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





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Arrow Pointed Observation: (1) Gravel Road (Now Partially paved by bituminous Overlay) parallel to DND Flyway. This earthen road was initially constructed to facilitate construction of DND flyway; movement of earthmovers and construction vehicles etc. This road is in existence since then and is still in use for movement of farm equipment (tractors); construction industry vehicles like dumpers, loaders and trucks etc.

(2) Paved Road having fresh bituminous overlay facilitating approach to the guide bund used for annual maintenance works; inspection of guide bunds and occasionally used by farmers.

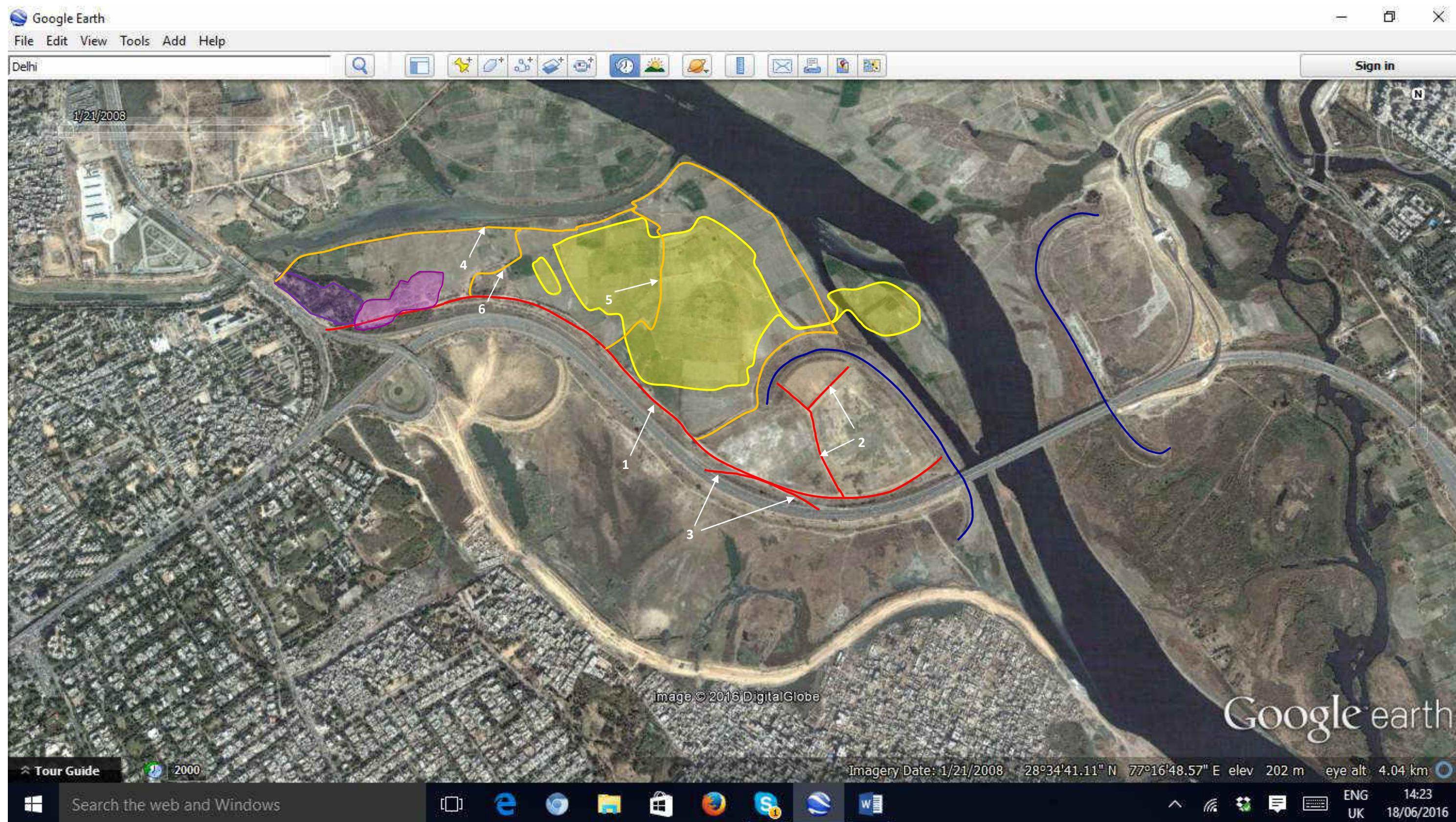
(3) Ramps with Bituminous Pavement linking DND Flyway and the Gravel Road (1).

(4) Unpaved Earthen Service Road used primarily by drain cleaning mobile equipment and earthmovers for removal of sludge from Barapullah drain.

(5) & (6) Earthen Trails marked by movement of earthmovers; dumpers and tractors moving on this land parcel.

Stabilised heaps of unsolicited dumps of construction debris; Fresh dumps of construction debris.





**Image Date 21/01/2008 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with Patches of Crop and Open Field; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

Arrow Pointed Observation: (1) Gravel Road (Now Partially paved by bituminous Overlay) parallel to DND Flyway. This earthen road was initially constructed to facilitate construction of DND flyway; movement of earthmovers and construction vehicles etc. This road is in existence since then and is still in use for movement of farm equipment (tractors); construction industry vehicles like dumpers, loaders and trucks etc.

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(3) Ramps with Bituminous Pavement linking DND Flyway and the Gravel Road (1).

(4) Unpaved Earthen Service Road used primarily by drain cleaning mobile equipment and earthmovers for removal of sludge from Barapullah drain.

(5) & (6) Earthen Trails marked by movement of earthmovers; dumpers and tractors moving on this land parcel.

Stabilised heaps of unsolicited dumps of construction debris; Fresh dumps of construction debris; Area used for World Culture Festival 2016 of Art of Living Foundation/Vyakti Vikash Kendra.



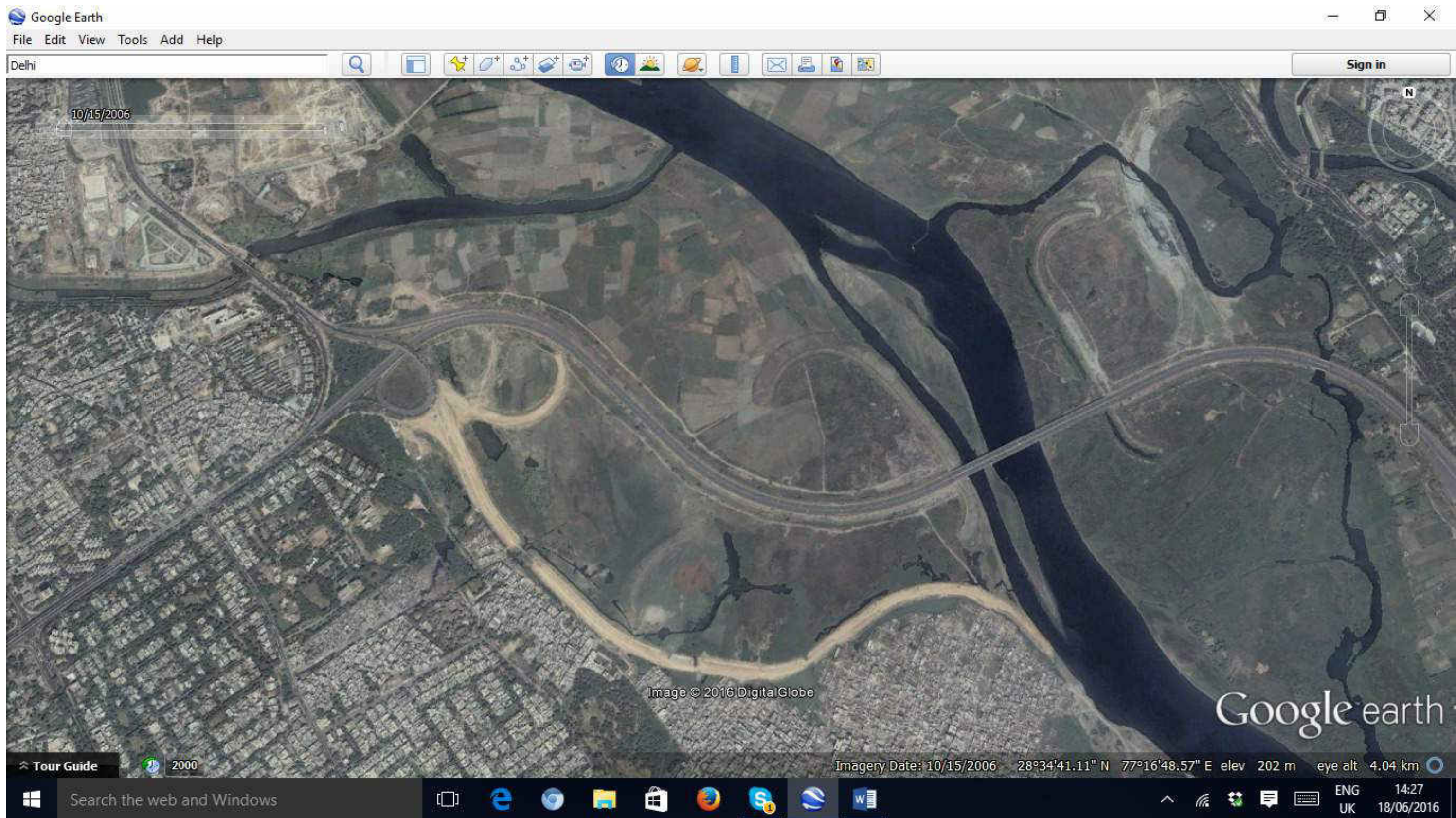
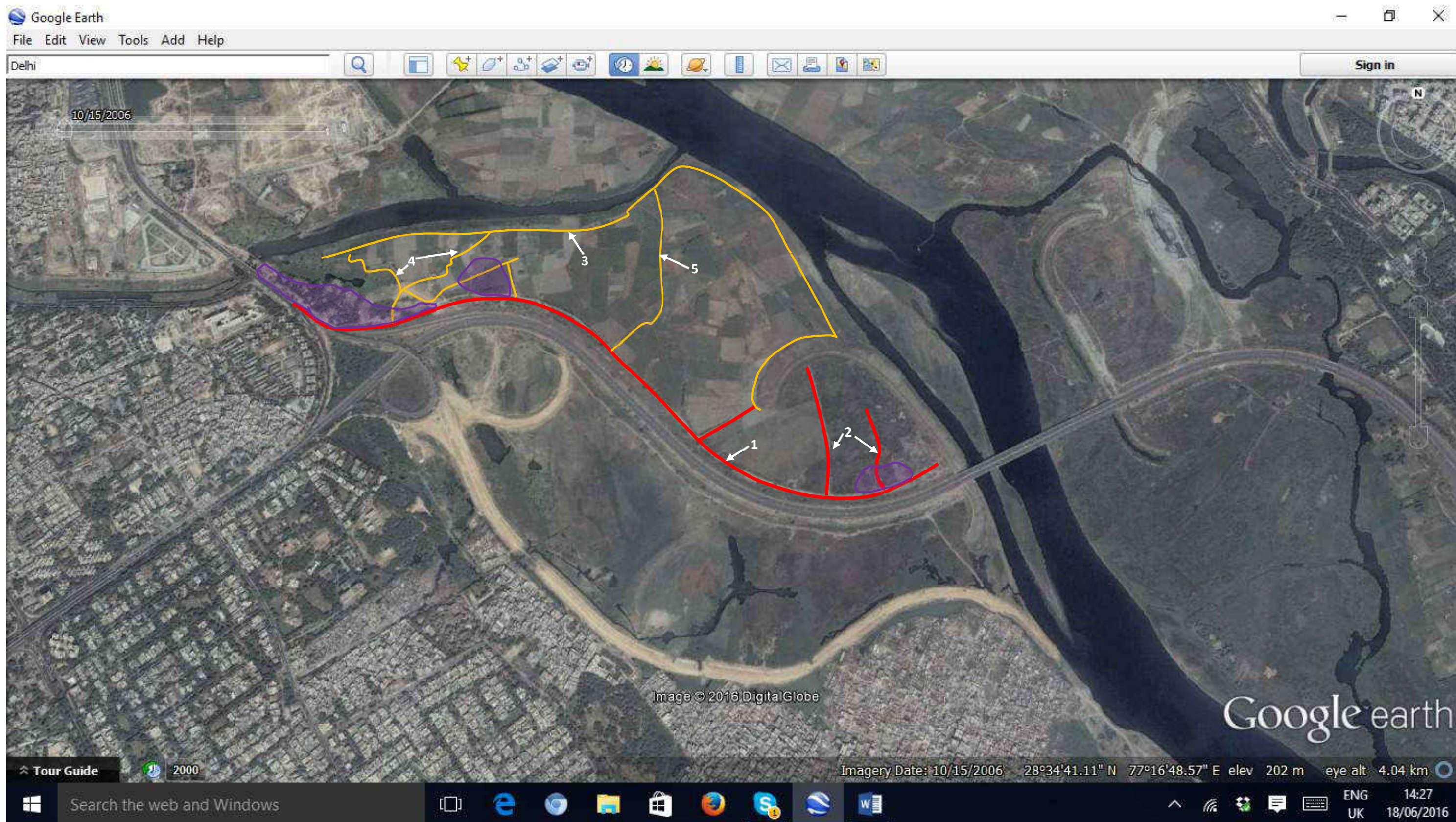


Image Date 15/10/2006 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with (and without) Crop; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.





**Image Date 15/10/2006 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with (and without) Crop; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

Arrow Pointed Observation: (1) Gravel Road parallel to DND Flyway. This earthen road was constructed to facilitate construction of DND flyway; movement of earthmovers and construction vehicles etc. This road is in existence since then and is still in use for movement of farm equipment (tractors); construction industry vehicles like dumpers, loaders and trucks etc.

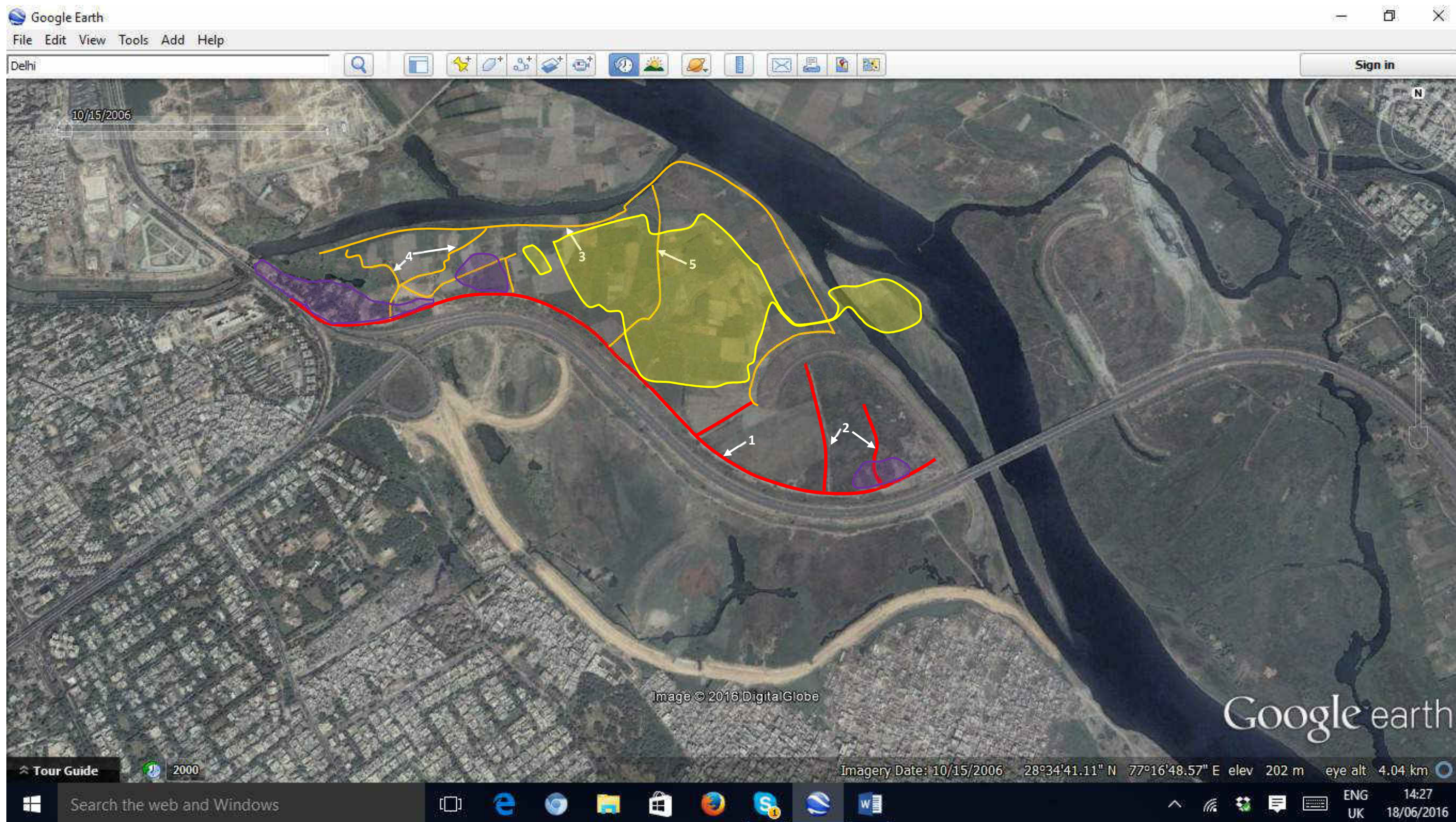
(2) Gravel road facilitating approach to the guide bund used for annual maintenance works; inspection of guide bunds and occasionally used by farmers.

(3) Unpaved Earthen Service Road used primarily by drain cleaning mobile equipment and earthmovers for removal of sludge from Barapullah drain.

(4) & (5) Earthen Trails marked by movement of earthmovers; dumpers and tractors moving on this land parcel.

Heaps of unsolicited dumps of construction debris.





**Image Date 15/10/2006 (Post-monsoon); Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Pattern; Open Agricultural Plots with (and without) Crop; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over Point Bar.**

Arrow Pointed Observation: (1) Gravel Road parallel to DND Flyway. This earthen road was constructed to facilitate construction of DND flyway; movement of earthmovers and construction vehicles etc. This road is in existence since then and is still in use for movement of farm equipment (tractors); construction industry vehicles like dumpers, loaders and trucks etc.

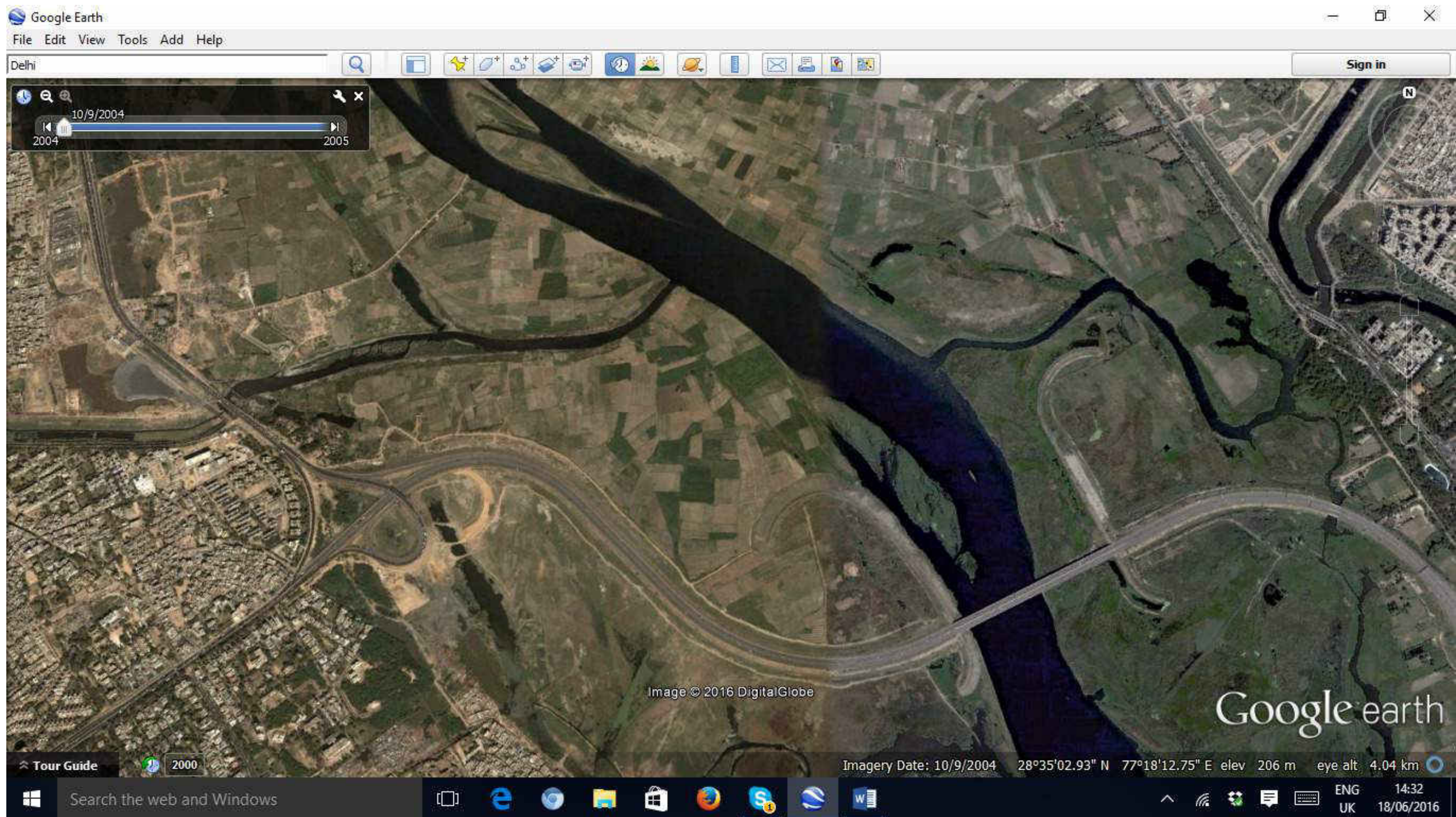
(2) Gravel road facilitating approach to the guide bund used for annual maintenance works; inspection of guide bunds and occasionally used by farmers.

(3) Unpaved Earthen Service Road used primarily by drain cleaning mobile equipment and earthmovers for removal of sludge from Barapullah drain.

(4) & (5) Earthen Trails marked by movement of earthmovers; dumpers and tractors moving on this land parcel.

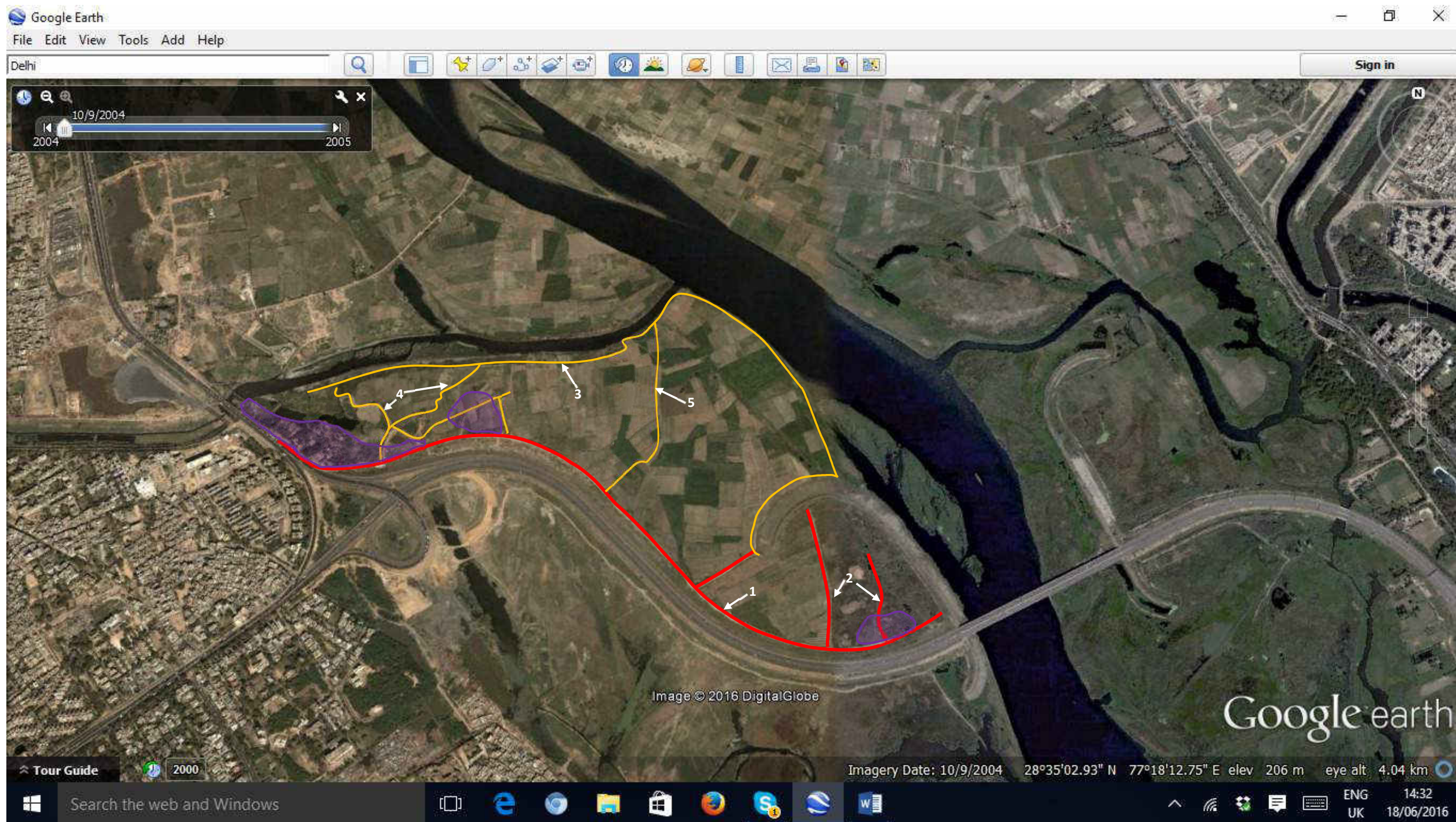
Heaps of unsolicited dumps of construction debris. Area used for World Culture Festival 2016 of Art of Living Foundation/Vyakti Vikash Kendra.





Screen Shot of Mosaic Image Date 09/10/2004 (Post-monsoon); Depicting Extremely Flat Terrain of Point Bar (Deposit of Fluvial Sand) with Clear Landuse Features; Open Field with Crops and Without Crops; Sandy Soil; No Undulation or Waterbody/Wetland in Existence Over the Point Bar.





**Mosaic Image Date 09/10/2004 (Post-monsoon); Depicting Extremely Flat Terrain of Point Bar (Deposit of Fluvial Sand) with Clear Landuse Features; Open Field with Crops and Without Crops; Sandy Soil; No Undulation or Waterbody/Wetland in Existence Over the Point Bar.**

Arrow Pointed Observation: (1) Gravel Road parallel to DND Flyway. This earthen road was constructed to facilitate construction of DND flyway; movement of earthmovers and construction vehicles etc. This road is in existence since then and is still in use for movement of farm equipment (tractors); construction industry vehicles like dumpers, loaders and trucks etc.

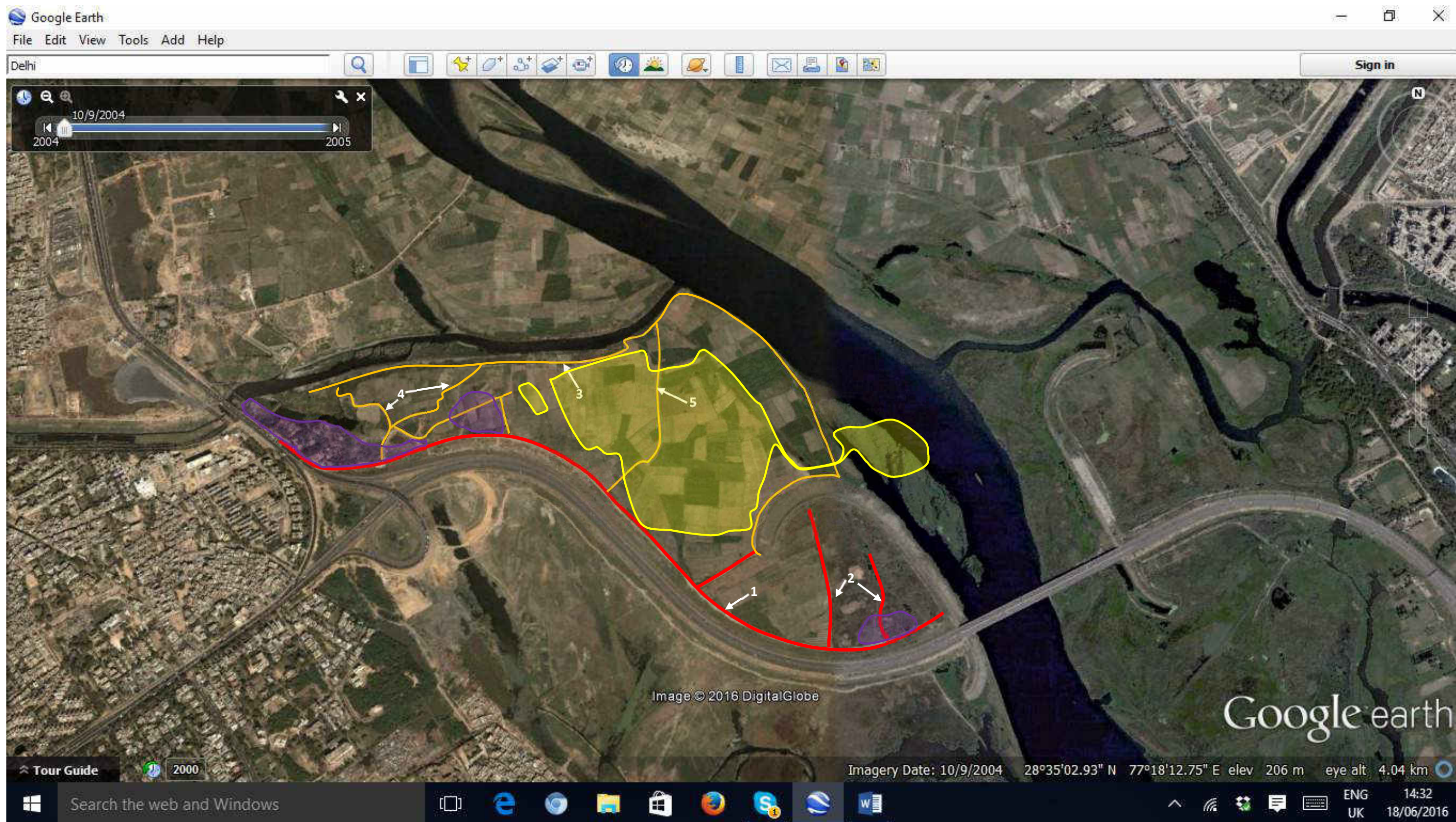
(2) Gravel road facilitating approach to the guide bund used for annual maintenance works; inspection of guide bunds and occasionally used by farmers.

(3) Unpaved Earthen Service Road used primarily by drain cleaning mobile equipment and earthmovers for removal of sludge from Barapullah drain.

(4) & (5) Earthen Trails marked by movement of earthmovers; dumpers and tractors moving on this land parcel.

Heaps of unsolicited dumps of construction debris.





**Mosaic Image Date 09/10/2004 (Post-monsoon); Depicting Extremely Flat Terrain of Point Bar (Deposit of Fluvial Sand) with Clear Landuse Features; Open Field with Crops and Without Crops; Sandy Soil; No Undulation or Waterbody/Wetland in Existence Over the Point Bar.**

Arrow Pointed Observation: (1) Gravel Road parallel to DND Flyway. This earthen road was constructed to facilitate construction of DND flyway; movement of earthmovers and construction vehicles etc. This road is in existence since then and is still in use for movement of farm equipment (tractors); construction industry vehicles like dumpers, loaders and trucks etc.

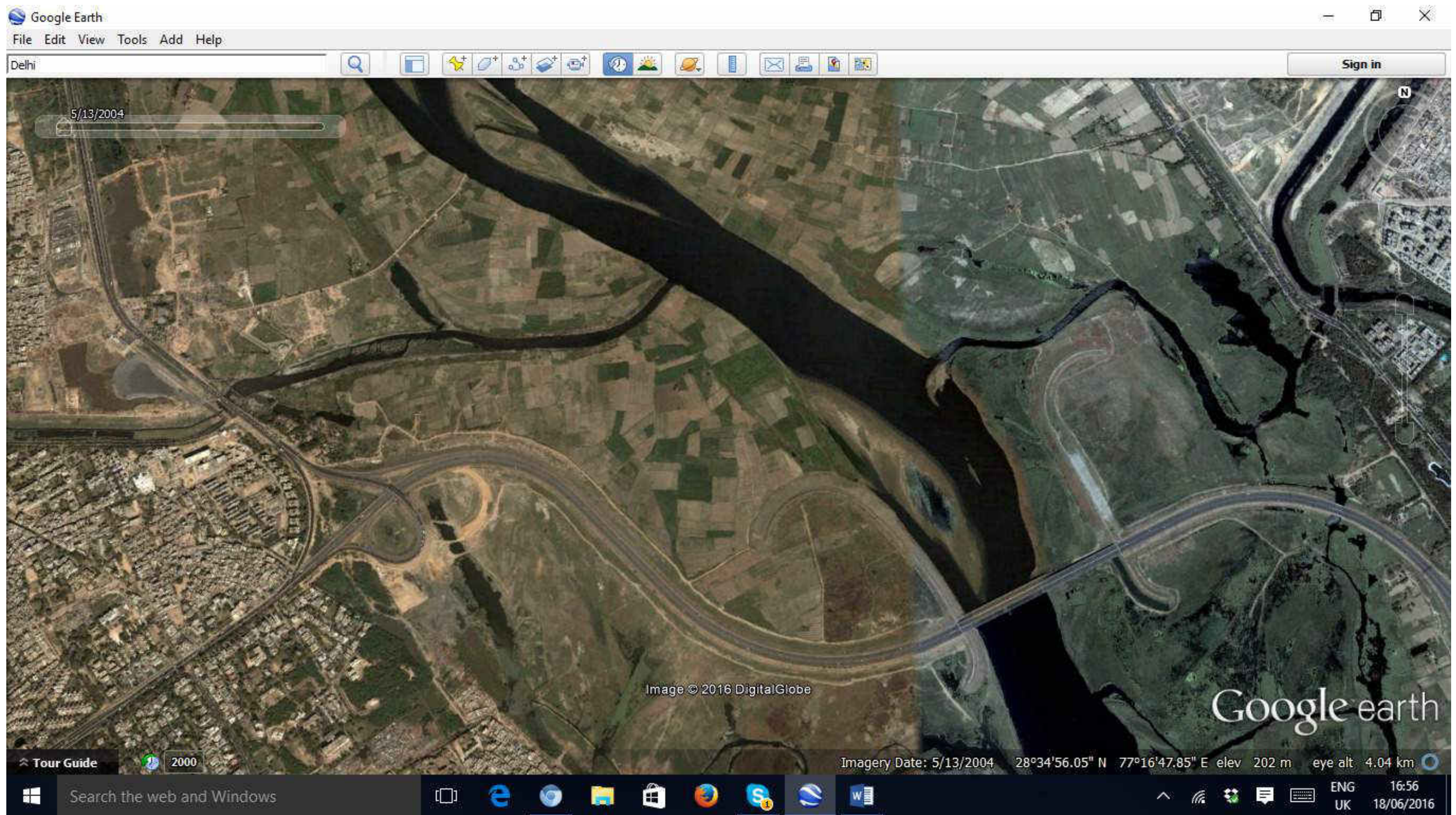
(2) Gravel road facilitating approach to the guide bund used for annual maintenance works; inspection of guide bunds and occasionally used by farmers.

(3) Unpaved Earthen Service Road used primarily by drain cleaning mobile equipment and earthmovers for removal of sludge from Barapullah drain.

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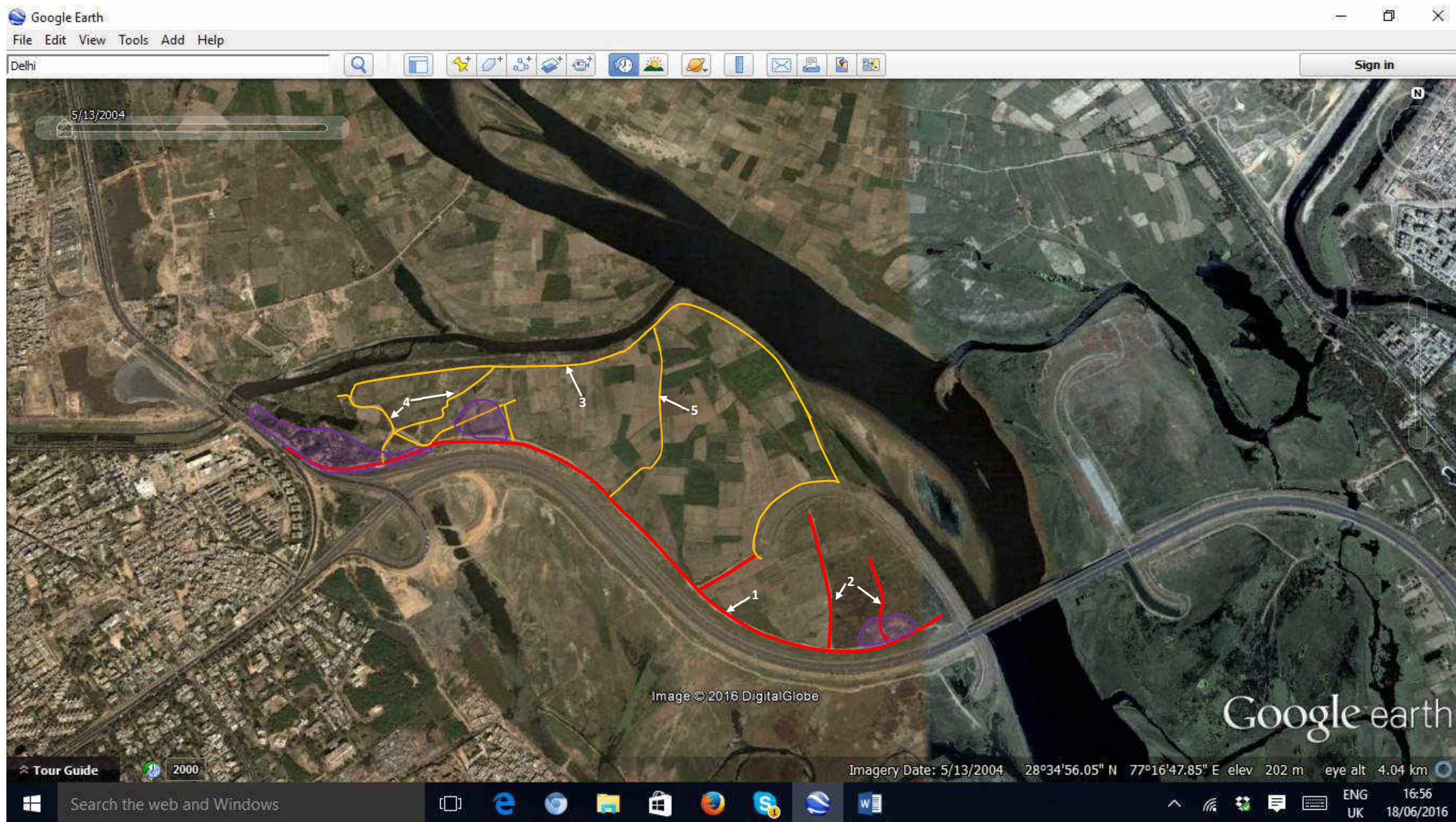
Heaps of unsolicited dumps of construction debris. Area used for World Culture Festival 2016 of Art of Living Foundation/Vyakti Vikash Kendra.





Mosaic Image Date 13/05/2004 [western half] (Pre-monsoon); Summer Season in Delhi; Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Features; Open Field with Crops and Without Crops; Sandy Soil; No Undulation or Waterbody/Wetland in Existence Over the Point Bar.





**Mosaic Image Date 13/05/2004 [western half] (Pre-monsoon); Summer Season in Delhi; Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Features; Open Field with Crops and Without Crops; Sandy Soil; No Undulation or Waterbody/Wetland in Existence Over the Point Bar.**

Arrow Pointed Observation: (1) Gravel Road parallel to DND Flyway. This earthen road was constructed to facilitate construction of DND flyway; movement of earthmovers and construction vehicles etc. This road is in existence since then and is still in use for movement of farm equipment (tractors); construction industry vehicles like dumpers, loaders and trucks etc.

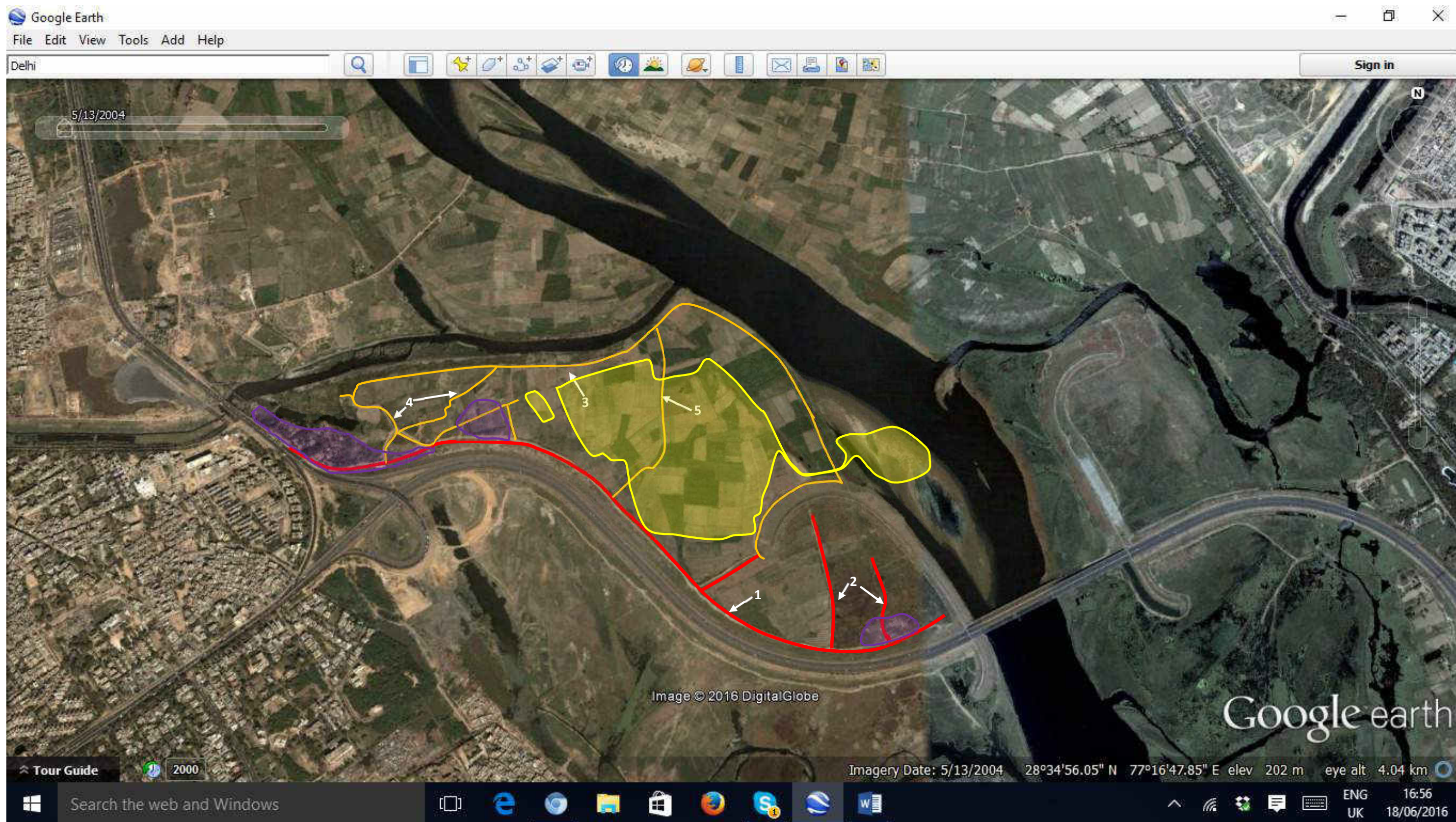
(2) Gravel road facilitating approach to the guide bund used for annual maintenance works; inspection of guide bunds and occasionally used by farmers.

(3) Unpaved Earthen Service Road used primarily by drain cleaning mobile equipment and earthmovers for removal of sludge from Barapullah drain.

(4) & (5) Earthen Trails marked by movement of earthmovers; dumpers and tractors moving on this land parcel.

Heaps of unsolicited dumps of construction debris.





**Mosaic Image Date 13/05/2004 [western half] (Pre-monsoon); Summer Season in Delhi; Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with Clear Landuse Features; Open Field with Crops and Without Crops; Sandy Soil; No Undulation or Waterbody/Wetland in Existence Over the Point Bar.**

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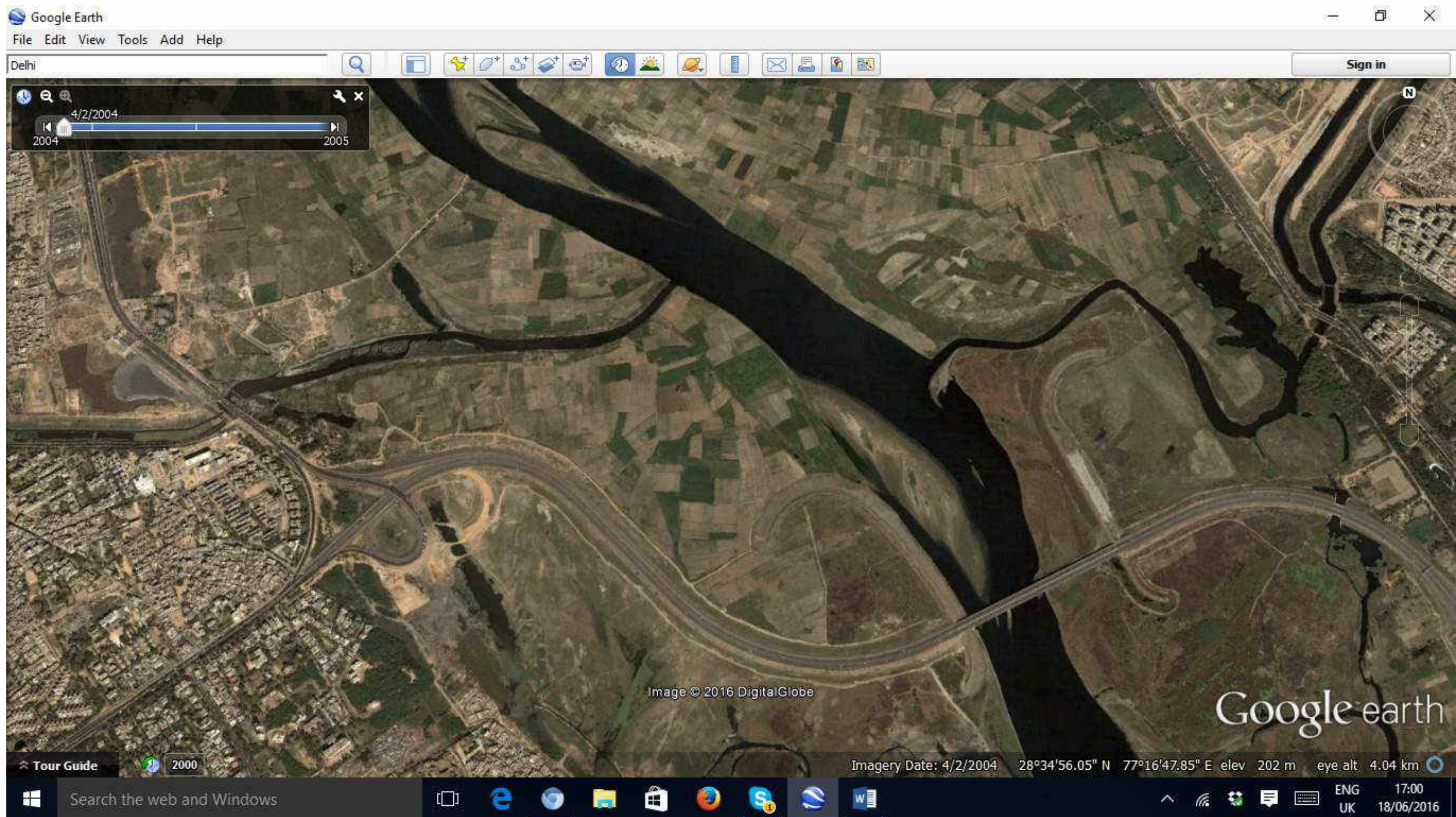
(2) Gravel road facilitating approach to the guide bund used for annual maintenance works; inspection of guide bunds and occasionally used by farmers.

(3) Unpaved Earthen Service Road used primarily by drain cleaning mobile equipment and earthmovers for removal of sludge from Barapullah drain.

(4) & (5) Earthen Trails marked by movement of earthmovers; dumpers and tractors moving on this land parcel.

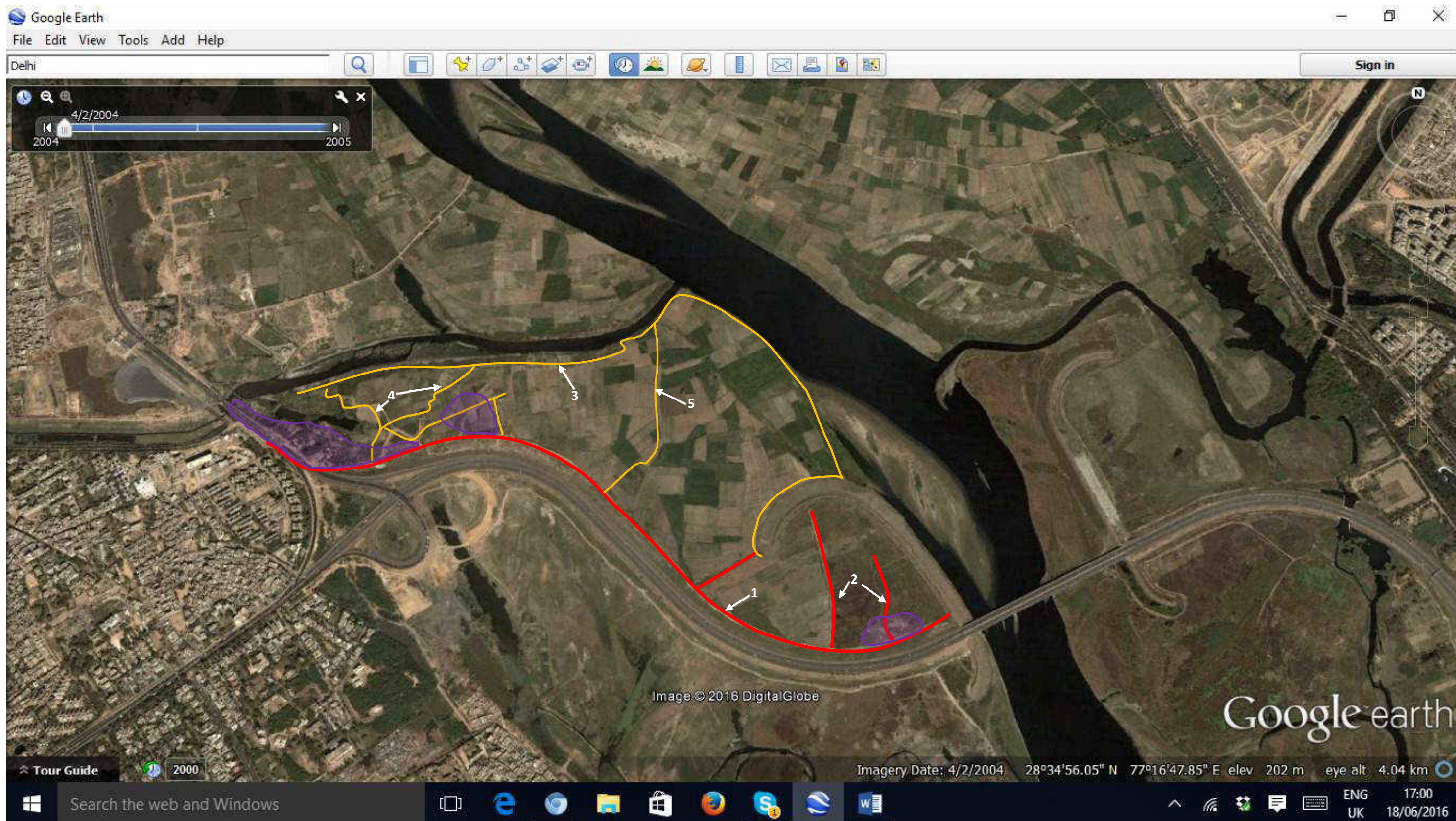
(6) & (7) Heaps of unsolicited dumps of construction debris. (8) Area used for World Culture Festival 2016 of Art of Living Foundation/Vyakti Vikash Kendra.





Screen Shot Image Dated 02/04/2004 (Pre-monsoon) Winter Season in Delhi; Depicting Extremely Flat Terrain of the Point Bar (Deposit of Fluvial Sand) with Clear Landuse Features; Farmland with crop; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence over the Point Bar.





**Image Dated 02/04/2004 (Pre-monsoon) Winter Season in Delhi; Depicting Extremely Flat Terrain of the Point Bar (Deposit of Fluvial Sand) with Clear Landuse Features; Farmland with crop; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence over the Point Bar.**

Arrow Pointed Observation: (1) Gravel Road parallel to DND Flyway. This earthen road was constructed to facilitate construction of DND flyway; movement of earthmovers and construction vehicles etc. This road is in existence since then and is still in use for movement of farm equipment (tractors); construction industry vehicles like dumpers, loaders and trucks etc.

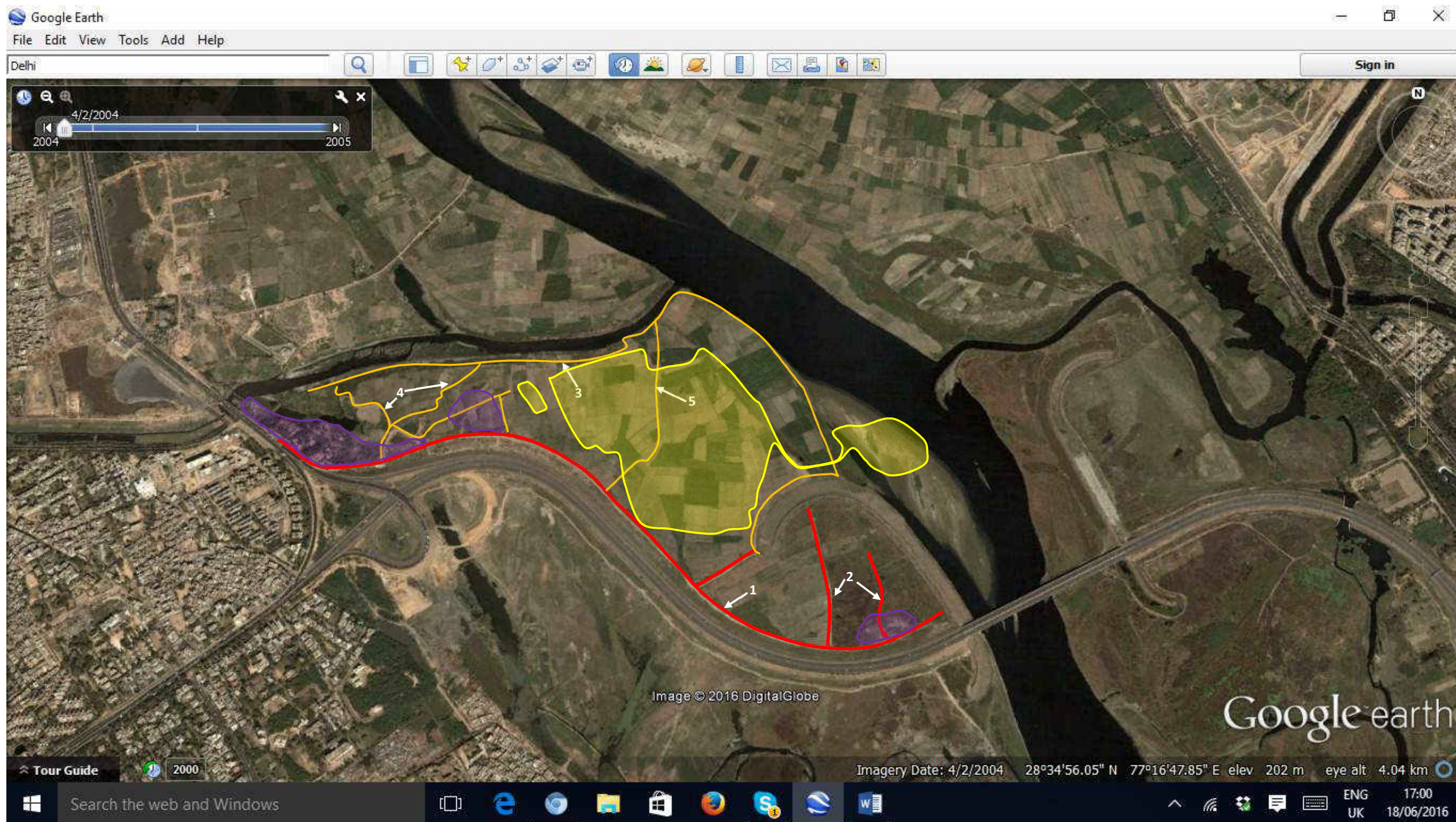
(2) Gravel road facilitating approach to the guide bund used for annual maintenance works; inspection of guide bunds and occasionally used by farmers.

(3) Unpaved Earthen Service Road used primarily by drain cleaning mobile equipment and earthmovers for removal of sludge from Barapullah drain.

(4) & (5) Earthen Trails marked by movement of earthmovers; dumpers and tractors moving on this land parcel.

Heaps of unsolicited dumps of construction debris.





**Image Dated 02/04/2004 (Pre-monsoon) Winter Season in Delhi; Depicting Extremely Flat Terrain of the Point Bar (Deposit of Fluvial Sand) with Clear Landuse Features; Farmland with crop; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence over the Point Bar.**

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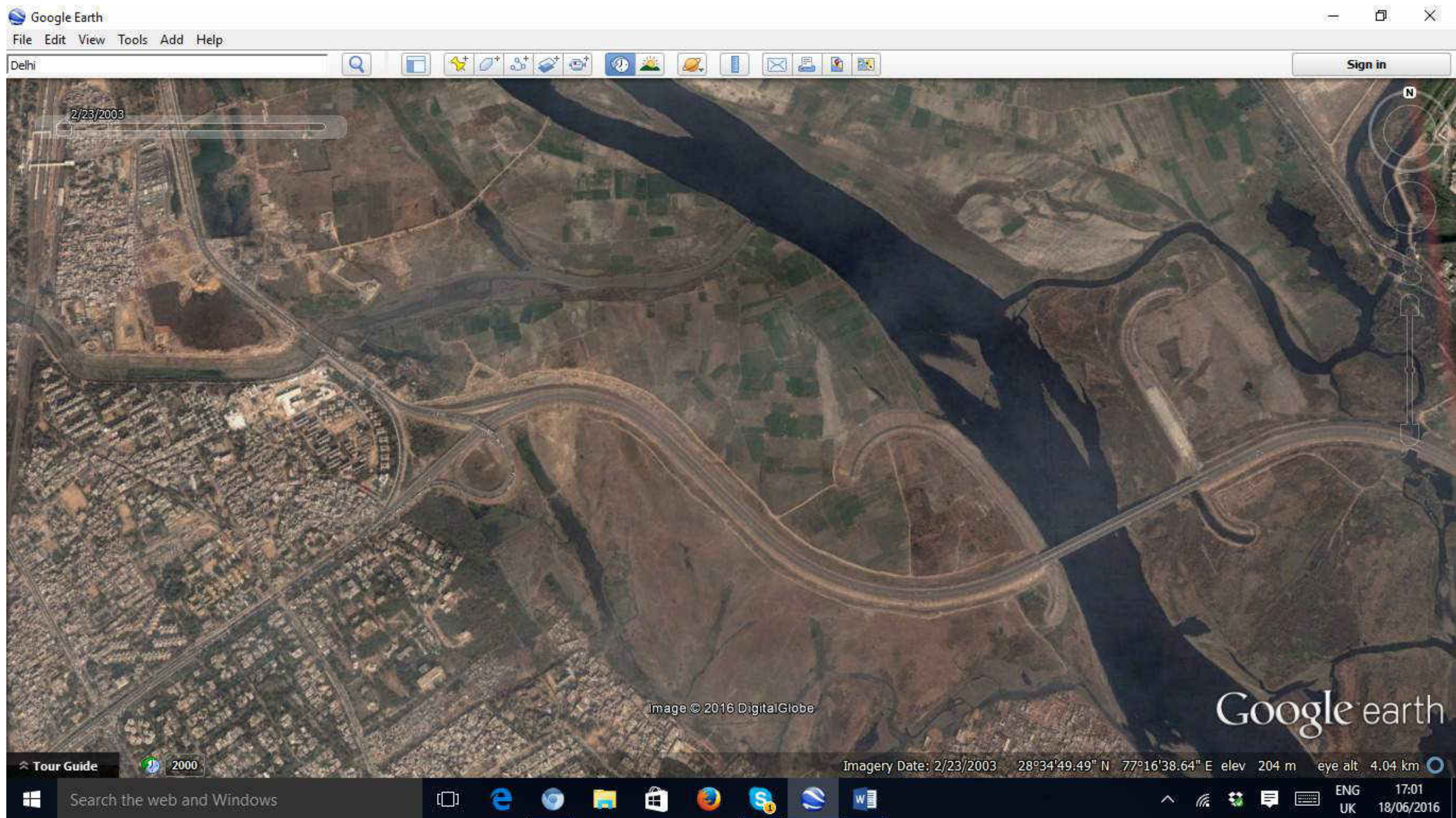
(2) Gravel road facilitating approach to the guide bund used for annual maintenance works; inspection of guide bunds and occasionally used by farmers.

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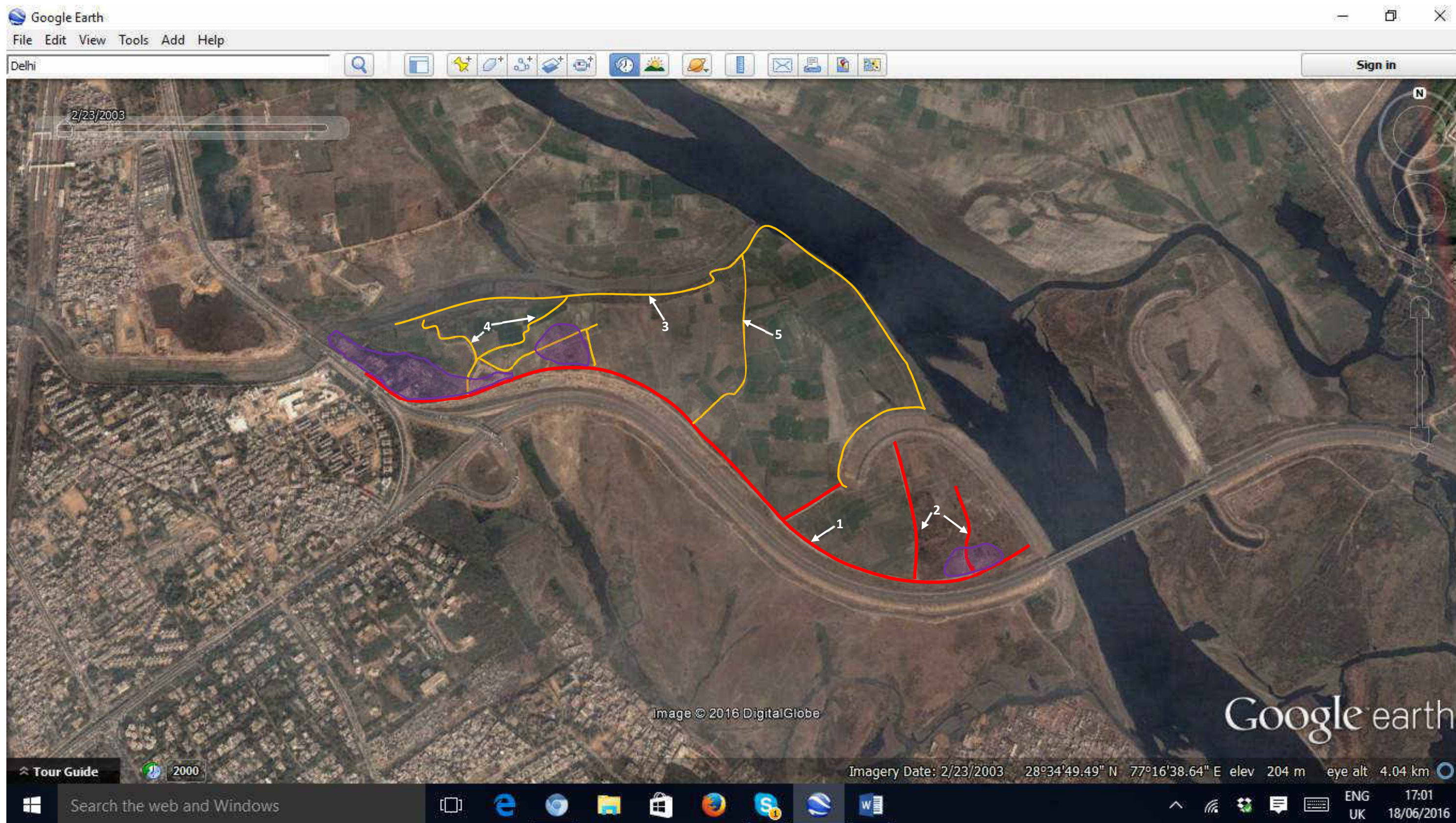
Heaps of unsolicited dumps of construction debris. Area used for World Culture Festival 2016 of Art of Living Foundation/Vyakti Vikash Kendra.





Screen Shot Image Dated 23/02/2003 (Post-monsoon) Winter Season in Delhi; Depicting Extremely Flat Terrain of Point Bar (Deposit of Fluvial Sand) with Clear Landuse Features; Farmlands with Crop; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland is Existing Over the Point Bar.





**Image Dated 23/02/2003 (Post-monsoon) Winter Season in Delhi; Depicting Extremely Flat Terrain of Point Bar (Deposit of Fluvial Sand) with Clear Landuse Features; Farmlands with Crop; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland is Existing Over the Point Bar.**

Arrow Pointed Observation: (1) Gravel Road parallel to DND Flyway. This earthen road was constructed to facilitate construction of DND flyway; movement of earthmovers and construction vehicles etc. This road is in existence since then and is still in use for movement of farm equipment (tractors); construction industry vehicles like dumpers, loaders and trucks etc.

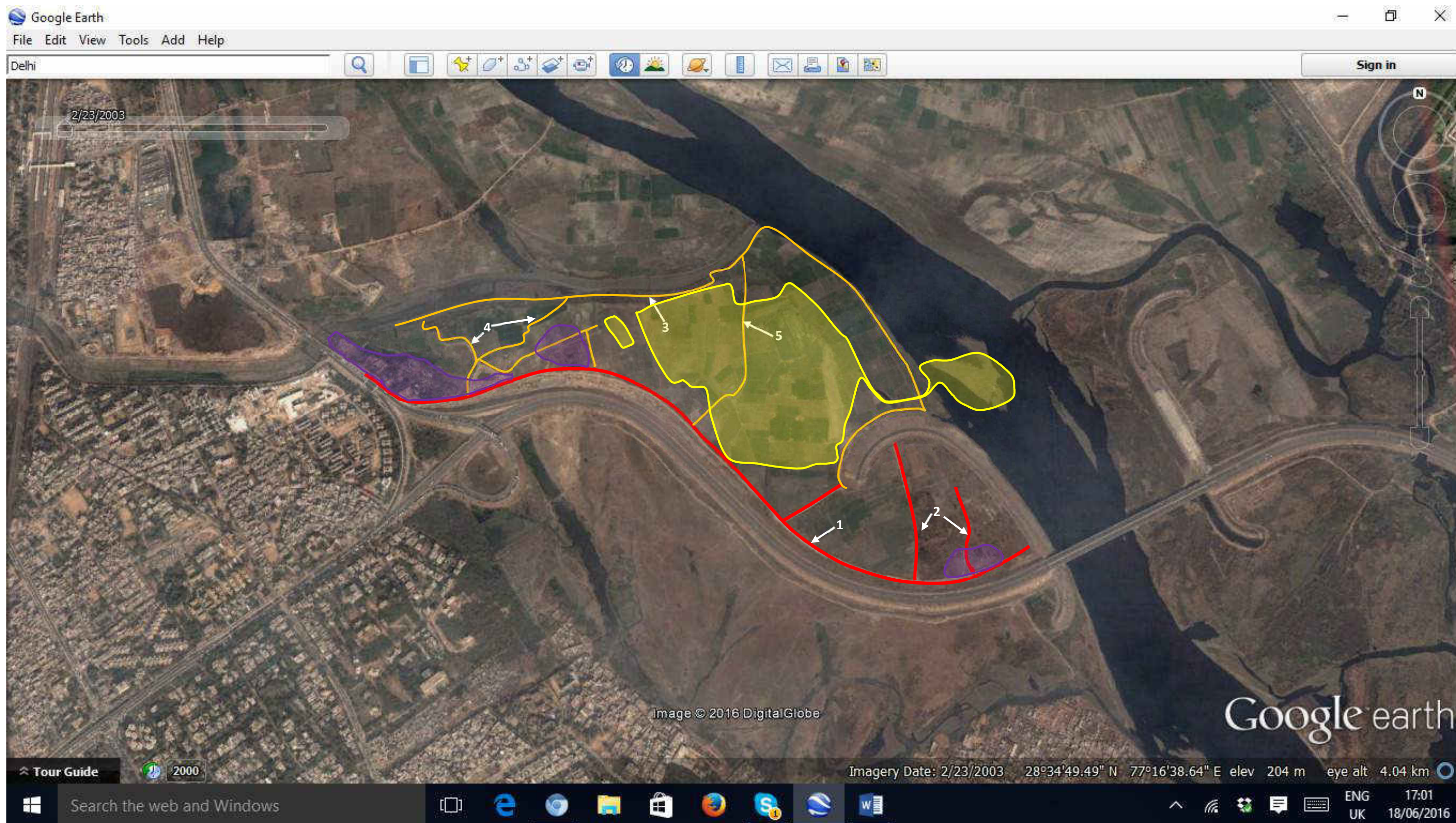
(2) Gravel road facilitating approach to the guide bund used for annual maintenance works; inspection of guide bunds and occasionally used by farmers.

(3) Unpaved Earthen Service Road used primarily by drain cleaning mobile equipment and earthmovers for removal of sludge from Barapullah drain.

(4) & (5) Earthen Trails marked by movement of earthmovers; dumpers and tractors moving on this land parcel.

Heaps of unsolicited dumps of construction debris.





**Image Dated 23/02/2003 (Post-monsoon) Winter Season in Delhi; Depicting Extremely Flat Terrain of Point Bar (Deposit of Fluvial Sand) with Clear Landuse Features; Farmlands with Crop; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland is Existing Over the Point Bar.**

Arrow Pointed Observation: (1) Gravel Road parallel to DND Flyway. This earthen road was constructed to facilitate construction of DND flyway; movement of earthmovers and construction vehicles etc. This road is in existence since then and is still in use for movement of farm equipment (tractors); construction industry vehicles like dumpers, loaders and trucks etc.

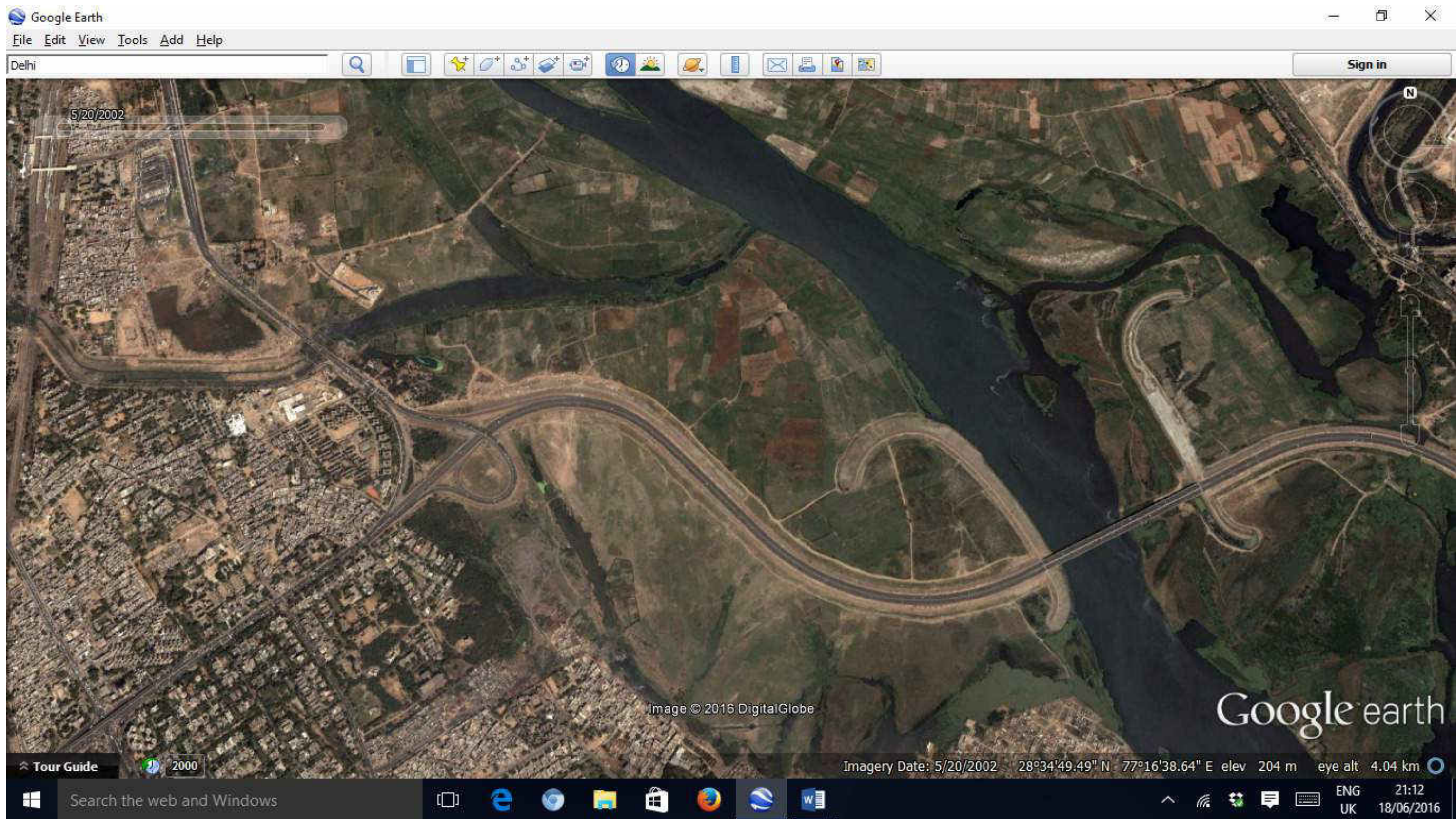
(2) Gravel road facilitating approach to the guide bund used for annual maintenance works; inspection of guide bunds and occasionally used by farmers.

(3) Unpaved Earthen Service Road used primarily by drain cleaning mobile equipment and earthmovers for removal of sludge from Barapullah drain.

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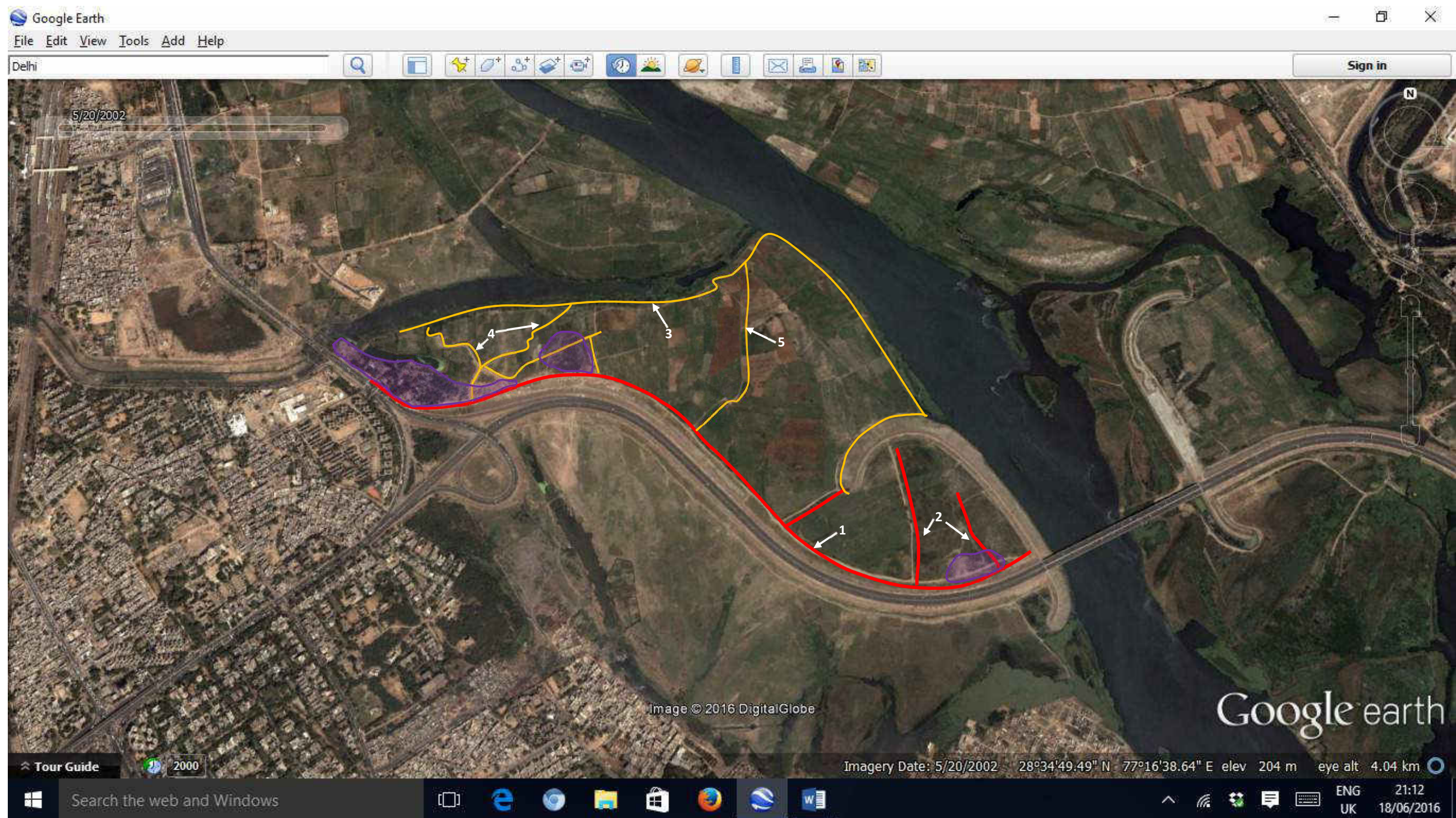
Heaps of unsolicited dumps of construction debris. Area used for World Culture Festival 2016 of Art of Living Foundation/Vyakti Vikash Kendra.





Screen Shot Image Date 20/05/2002 (Pre-monsoon) Summer Season in Delhi; Depicting Extremely Terrain of a Flat Point Bar (Deposit of Fluvial Sand) with Landuse Features; Farmland with Crop; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence over the Point Bar.





**Image Date 20/05/2002 (Pre-monsoon) Summer Season in Delhi; Depicting Extremely Terrain of a Flat Point Bar (Deposit of Fluvial Sand) with Landuse Features; Farmland with Crop; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence over the Point Bar.**

Arrow Pointed Observation: (1) Gravel Road parallel to DND Flyway. This earthen road was constructed to facilitate construction of DND flyway; movement of earthmovers and construction vehicles etc. This road is in existence since then and is still in use for movement of farm equipment (tractors); construction industry vehicles like dumpers, loaders and trucks etc.

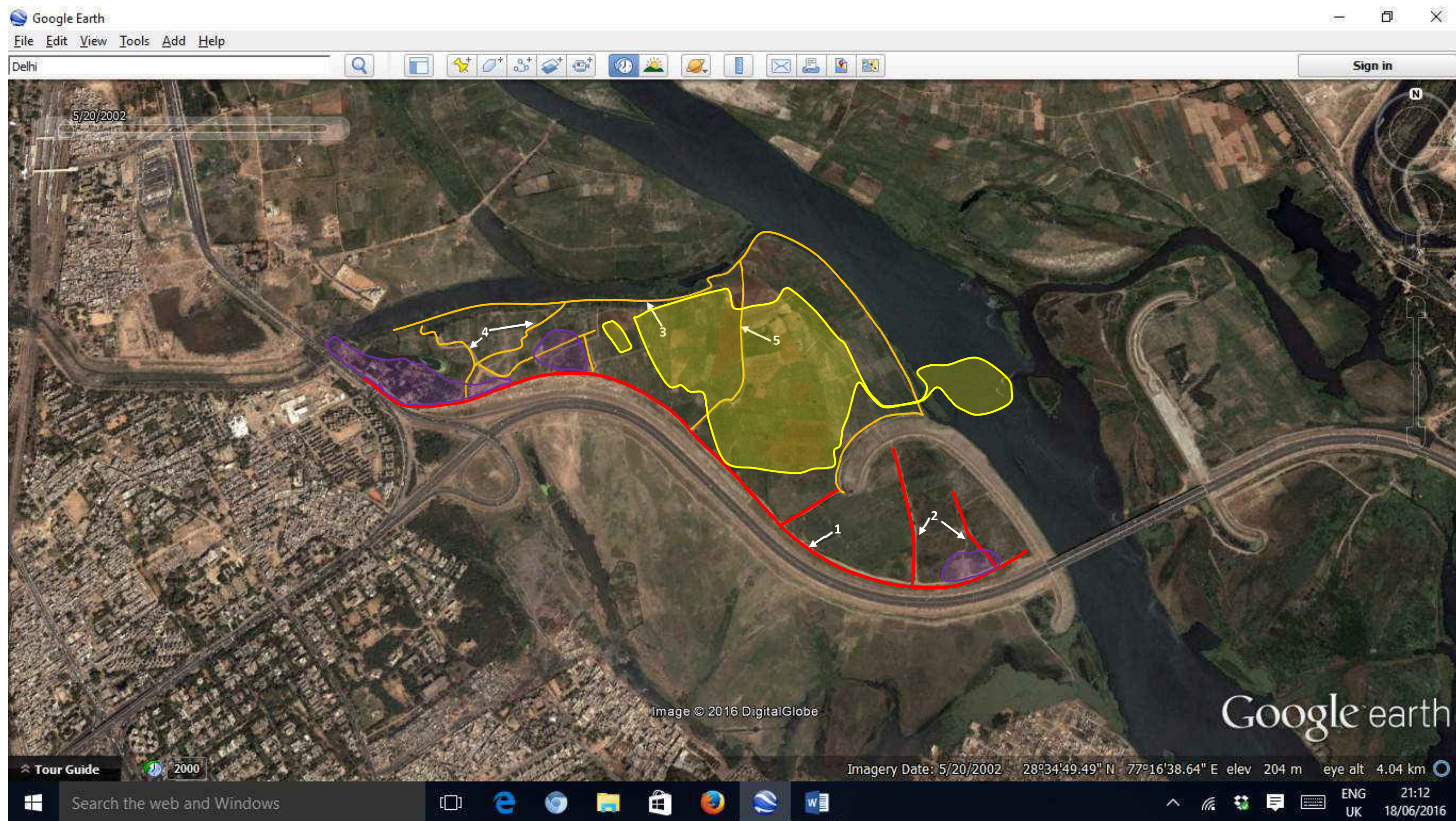
(2) Gravel road facilitating approach to the guide bund used for annual maintenance works; inspection of guide bunds and occasionally used by farmers.

(3) Unpaved Earthen Service Road used primarily by drain cleaning mobile equipment and earthmovers for removal of sludge from Barapullah drain.

(4) & (5) Earthen Trails marked by movement of earthmovers; dumpers and tractors moving on this land parcel.

Heaps of unsolicited dumps of construction debris.





**Image Date 20/05/2002 (Pre-monsoon) Summer Season in Delhi; Depicting Extremely Terrain of a Flat Point Bar (Deposit of Fluvial Sand) with Landuse Features; Farmland with Crop; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence over the Point Bar.**

Arrow Pointed Observation: (1) Gravel Road parallel to DND Flyway. This earthen road was constructed to facilitate construction of DND flyway; movement of earthmovers and construction vehicles etc. This road is in existence since then and is still in use for movement of farm equipment (tractors); construction industry vehicles like dumpers, loaders and trucks etc.

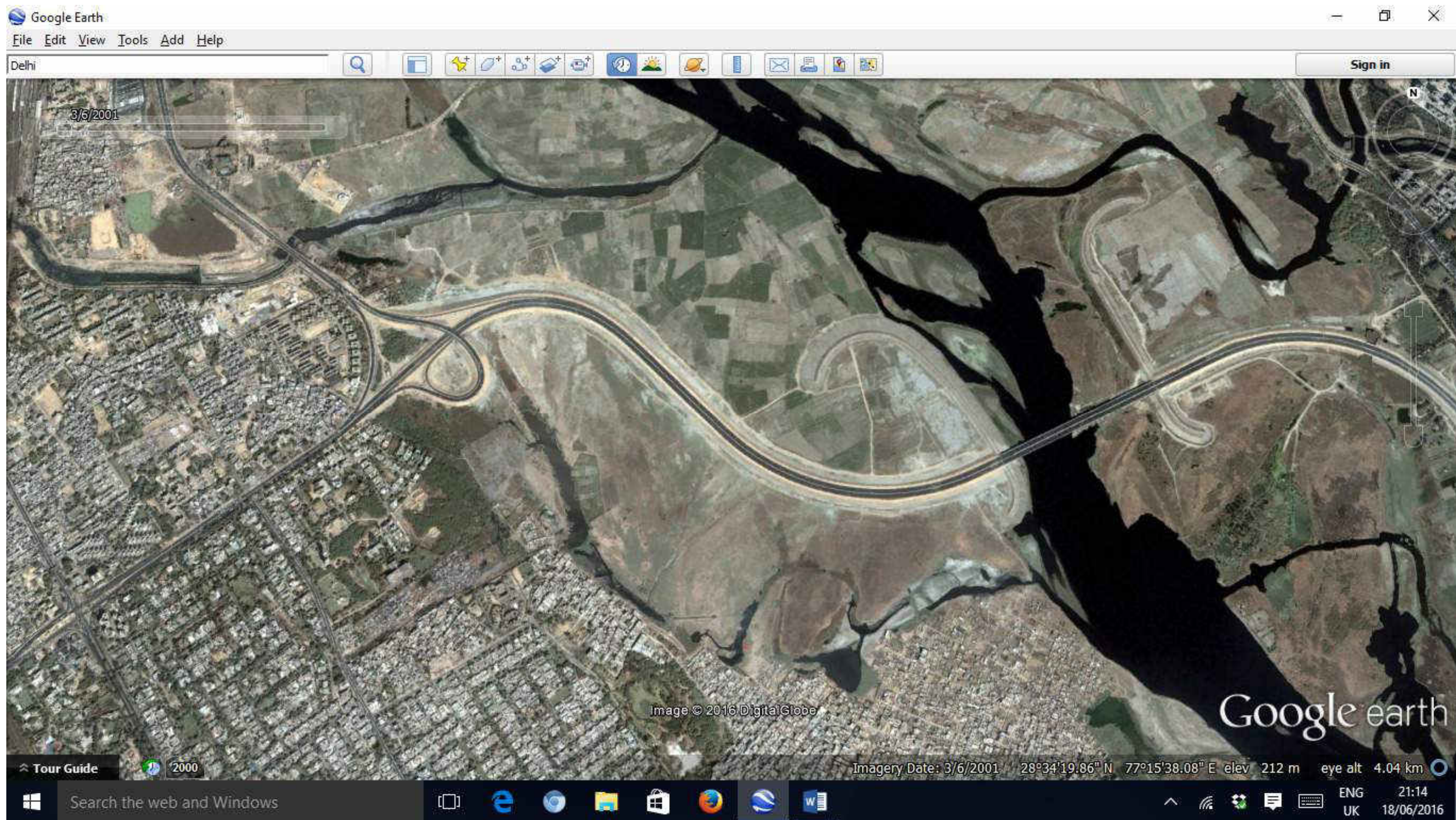
(2) Gravel road facilitating approach to the guide bund used for annual maintenance works; inspection of guide bunds and occasionally used by farmers.

(3) Unpaved Earthen Service Road used primarily by drain cleaning mobile equipment and earthmovers for removal of sludge from Barapullah drain.

(4) & (5) Earthen Trails marked by movement of earthmovers; dumpers and tractors moving on this land parcel.

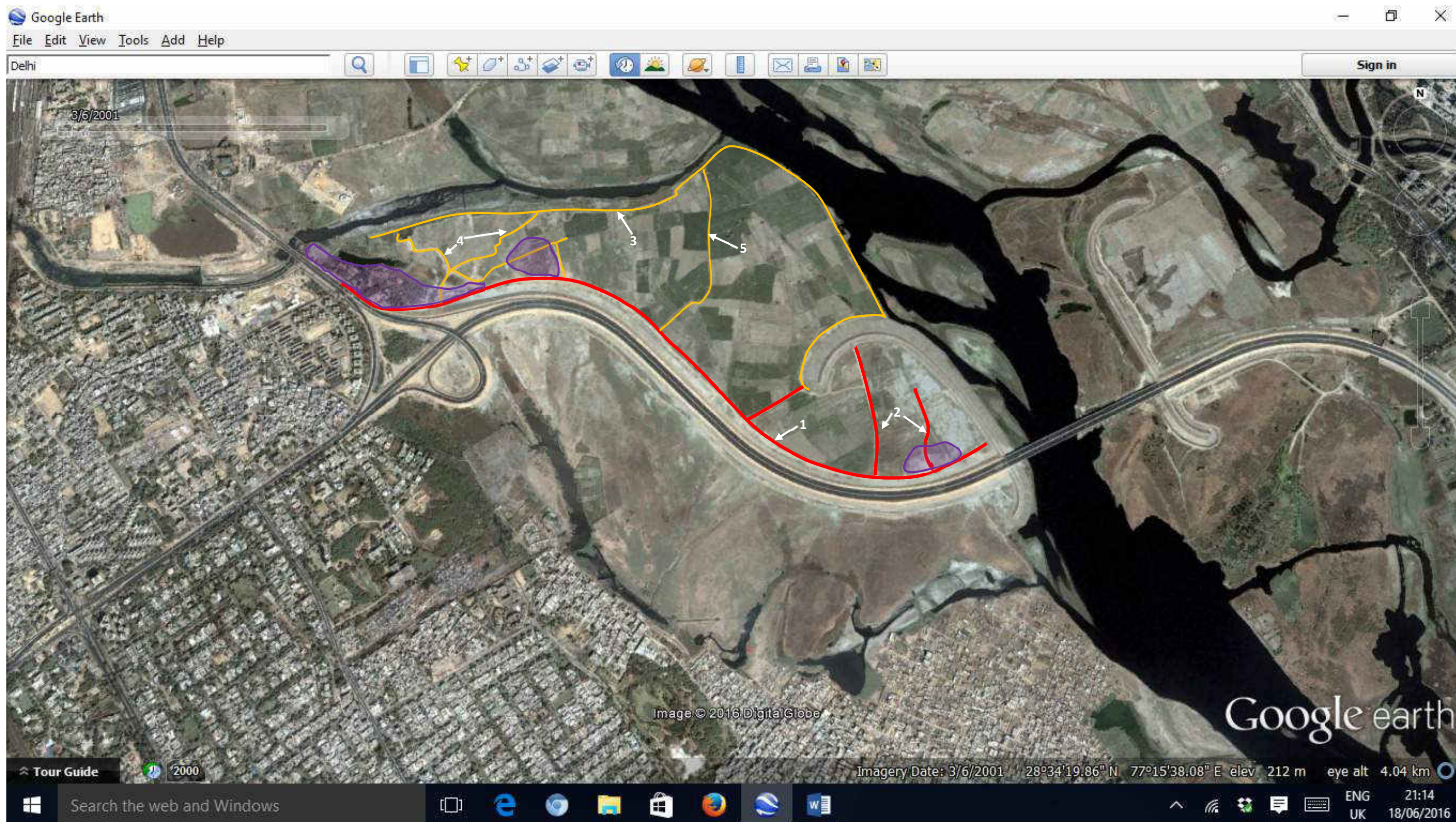
Heaps of unsolicited dumps of construction debris. Area used for World Culture Festival 2016 of Art of Living Foundation/Vyakti Vikash Kendra.





Screen Shot Image Date 06/03/2001 (Pre-monsoon); Depicting Extremely Flat Terrain of Point Bar (Deposit of Fluvial Sand) with Landuse Features; Farmland with Crops; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over the Point Bar.





**Image Date 06/03/2001 (Pre-monsoon); Depicting Extremely Flat Terrain of Point Bar (Deposit of Fluvial Sand) with Landuse Features; Farmland with Crops; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over the Point Bar.**

Arrow Pointed Observation: (1) Gravel Road parallel to DND Flyway. This earthen road was constructed to facilitate construction of DND flyway; movement of earthmovers and construction vehicles etc. This road is in existence since then and is still in use for movement of farm equipment (tractors); construction industry vehicles like dumpers, loaders and trucks etc.

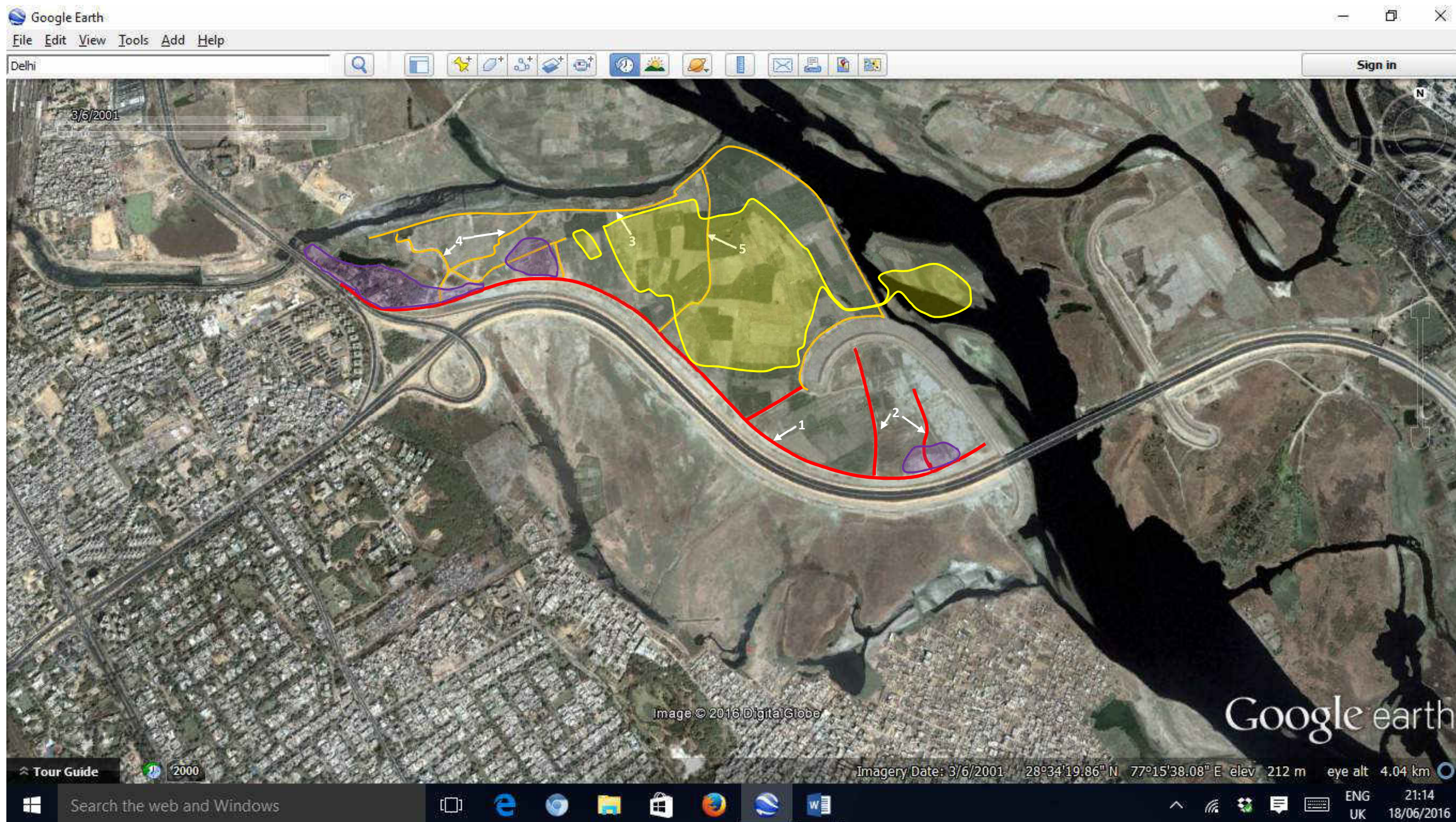
(2) Gravel road facilitating approach to the guide bund used for annual maintenance works; inspection of guide bunds and occasionally used by farmers.

(3) Unpaved Earthen Service Road used primarily by drain cleaning mobile equipment and earthmovers for removal of sludge from Barapullah drain.

(4) & (5) Earthen Trails marked by movement of earthmovers; dumpers and tractors moving on this land parcel.

Heaps of unsolicited dumps of construction debris.





**Image Date 06/03/2001 (Pre-monsoon); Depicting Extremely Flat Terrain of Point Bar (Deposit of Fluvial Sand) with Landuse Features; Farmland with Crops; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over the Point Bar.**

Arrow Pointed Observation: (1) Gravel Road parallel to DND Flyway. This earthen road was constructed to facilitate construction of DND flyway; movement of earthmovers and construction vehicles etc. This road is in existence since then and is still in use for movement of farm equipment (tractors); construction industry vehicles like dumpers, loaders and trucks etc.

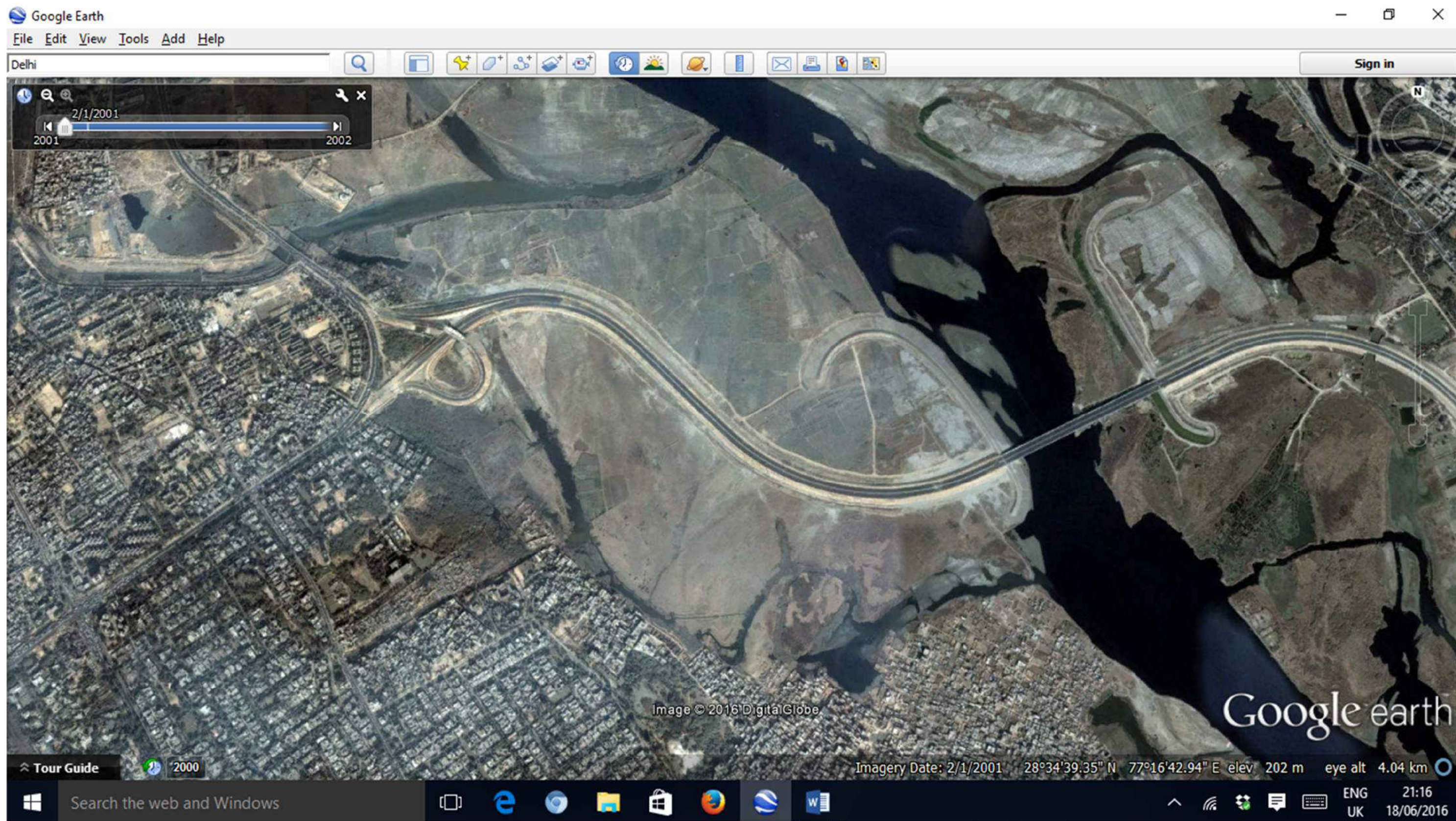
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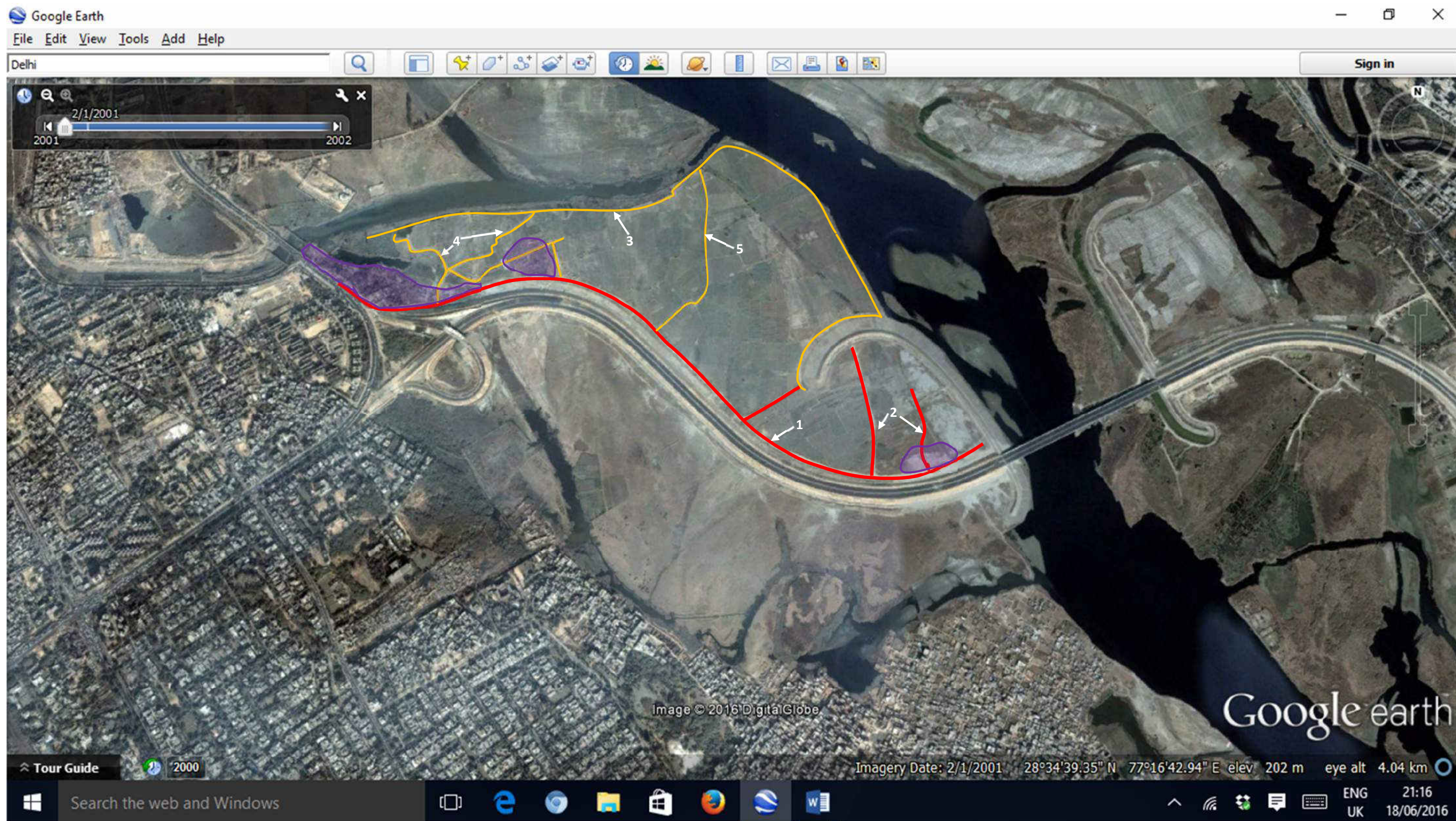
Heaps of unsolicited dumps of construction debris. Area used for World Culture Festival 2016 of Art of Living Foundation/Vyakti Vikash Kendra.





Screen Shot Image Dated 01/02/2001 (Post-monsoon) Winter Season in Delhi; Depicting Extremely Flat Terrain of the Point Bar (Deposit of Fluvial Sand) with Clear Landuse Features; Open Agricultural Farmland Without Standing Crops; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over the Point Bar.





**Image Dated 01/02/2001 (Post-monsoon) Winter Season in Delhi; Depicting Extremely Flat Terrain of the Point Bar (Deposit of Fluvial Sand) with Clear Landuse Features; Open Agricultural Farmland Without Standing Crops; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over the Point Bar.**

Arrow Pointed Observation: (1) Gravel Road parallel to DND Flyway. This earthen road was constructed to facilitate construction of DND flyway; movement of earthmovers and construction vehicles etc. This road is in existence since then and is still in use for movement of farm equipment (tractors); construction industry vehicles like dumpers, loaders and trucks etc.

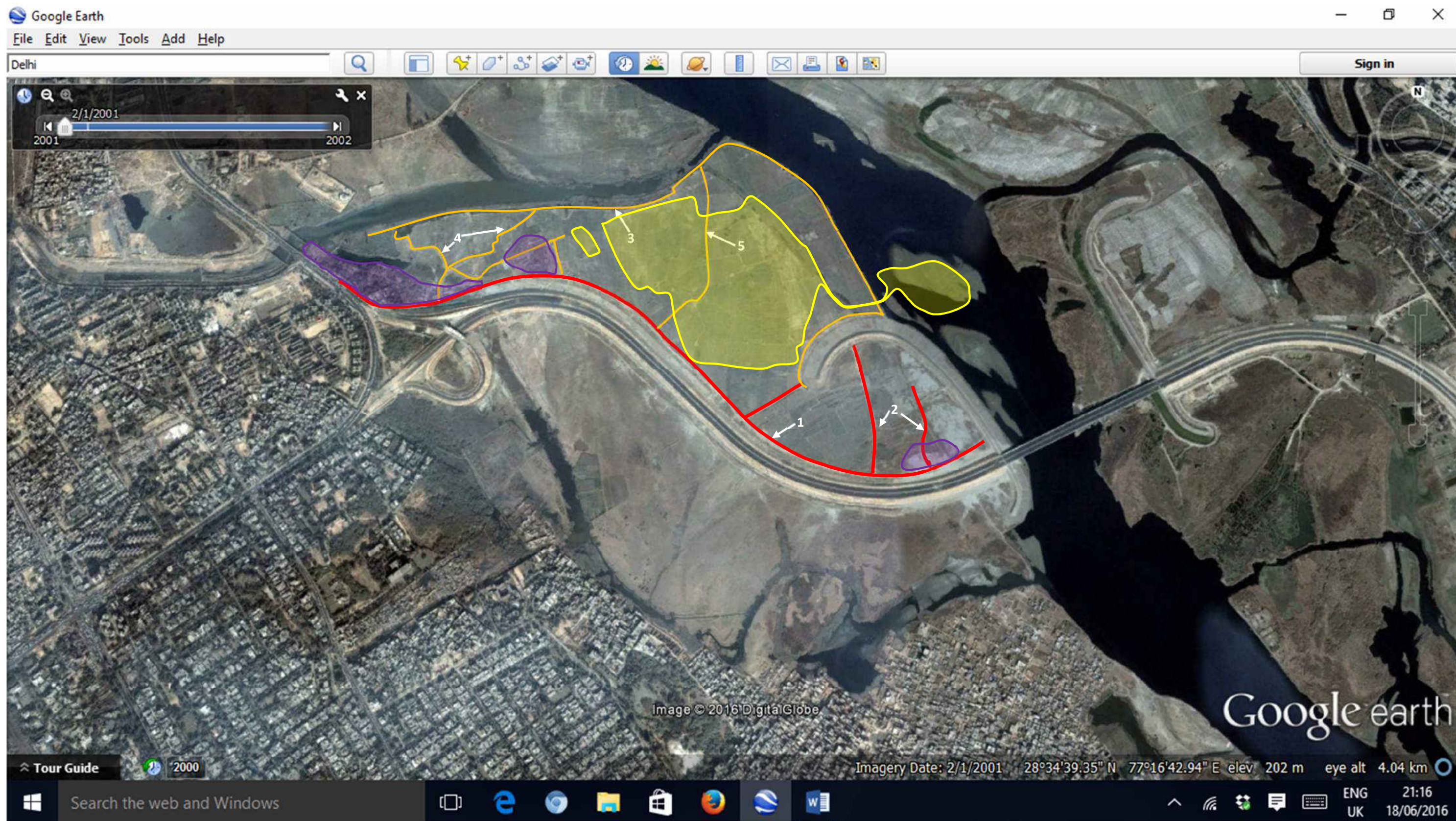
(2) Gravel road facilitating approach to the guide bund used for annual maintenance works; inspection of guide bunds and occasionally used by farmers.

(3) Unpaved Earthen Service Road used primarily by drain cleaning mobile equipment and earthmovers for removal of sludge from Barapullah drain.

(4) & (5) Earthen Trails marked by movement of earthmovers; dumpers and tractors moving on this land parcel.

Heaps of unsolicited dumps of construction debris.





**Image Dated 01/02/2001 (Post-monsoon) Winter Season in Delhi; Depicting Extremely Flat Terrain of the Point Bar (Deposit of Fluvial Sand) with Clear Landuse Features; Open Agricultural Farmland Without Standing Crops; Sandy Soil with Reasonably Good Soil Moisture; No Undulation or Waterbody/Wetland in Existence Over the Point Bar.**

Arrow Pointed Observation: (1) Gravel Road parallel to DND Flyway. This earthen road was constructed to facilitate construction of DND flyway; movement of earthmovers and construction vehicles etc. This road is in existence since then and is still in use for movement of farm equipment (tractors); construction industry vehicles like dumpers, loaders and trucks etc.

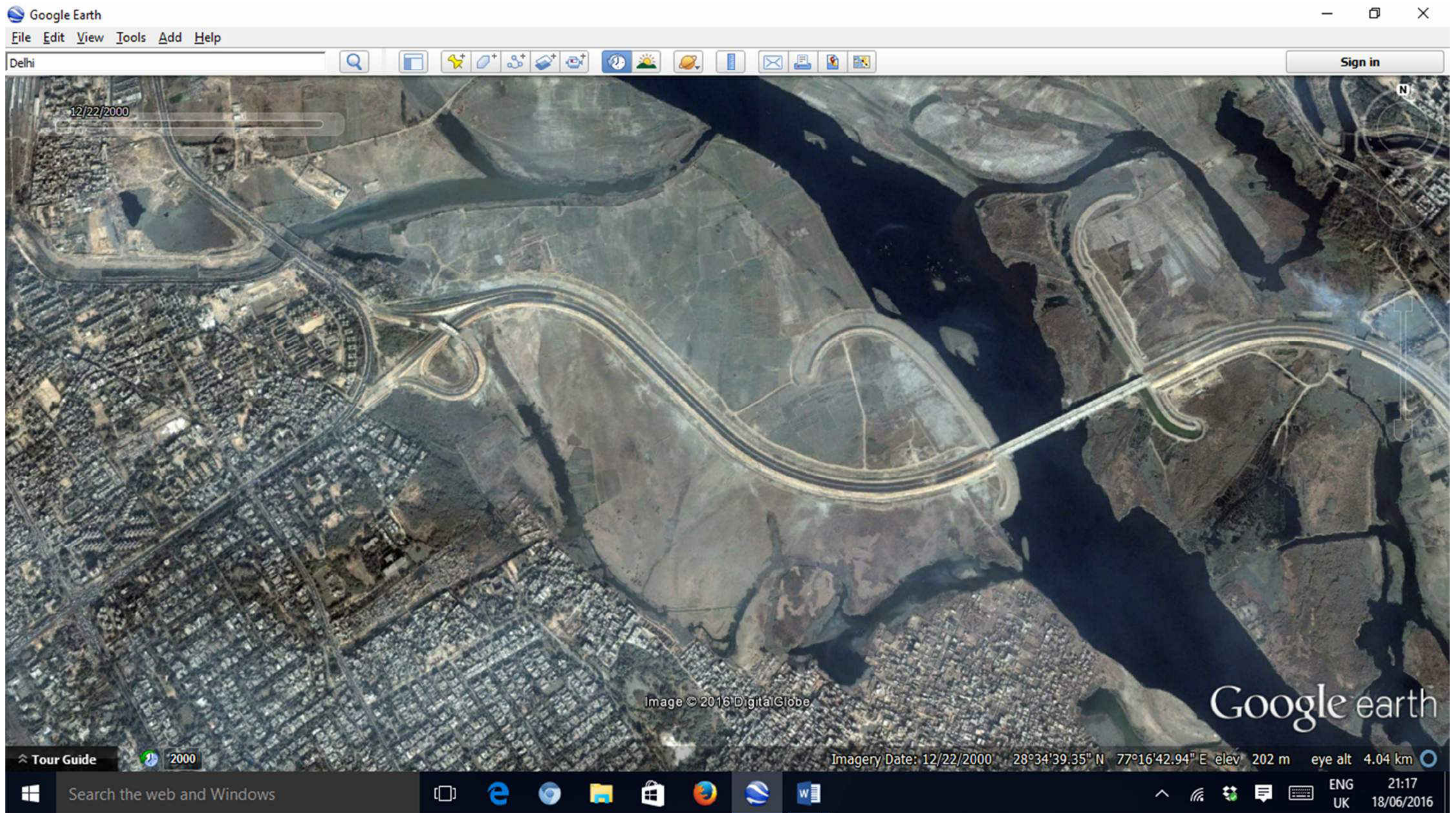
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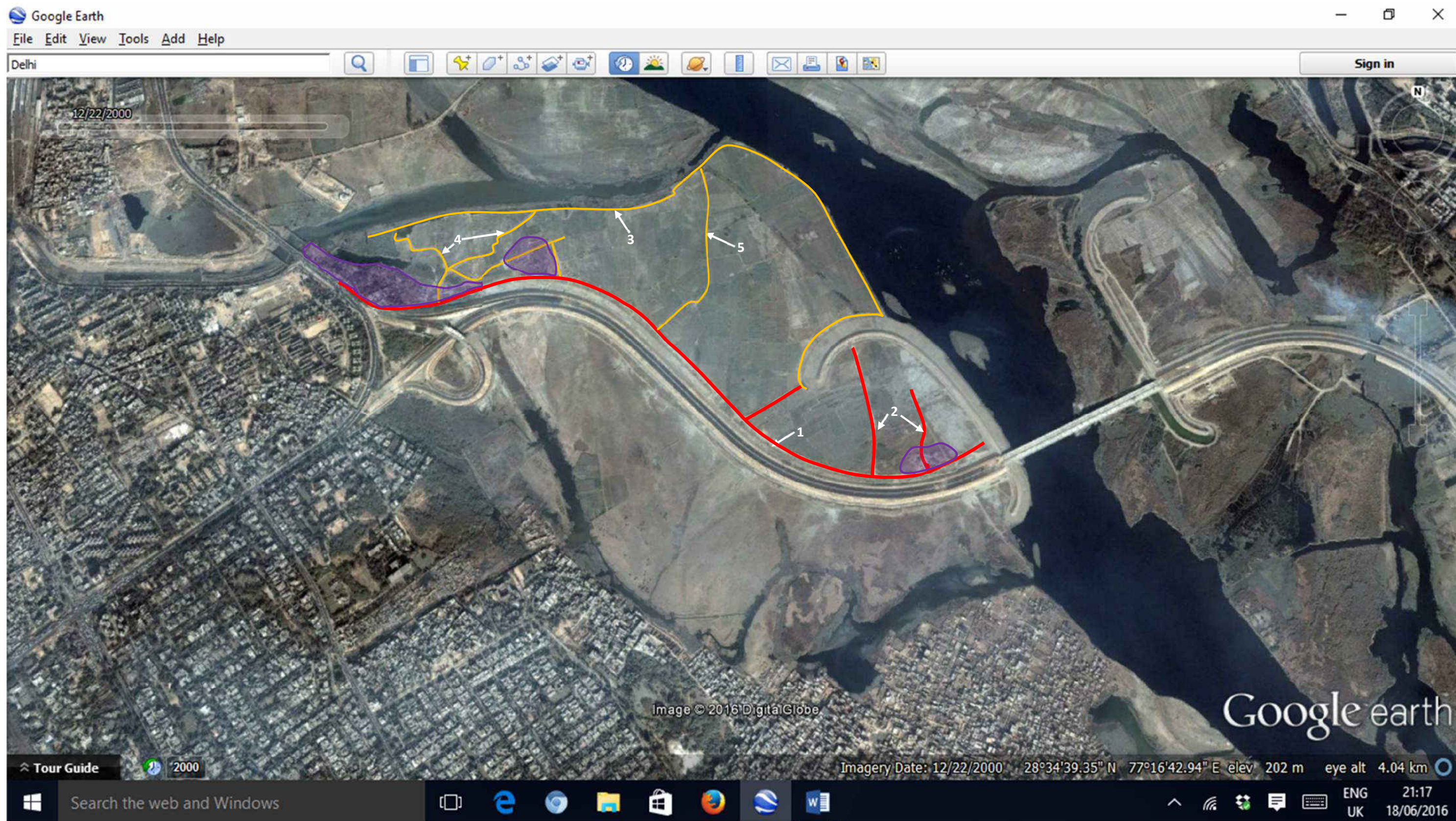
Heaps of unsolicited dumps of construction debris. Area used for World Culture Festival 2016 of Art of Living Foundation/Vyakti Vikash Kendra.





Screen shot Image of the Event Venue Dated 22<sup>nd</sup> December 2000





**Image Date 22/12/2000 (Post-monsoon) Winter Season in Delhi; Depicting Extremely Flat Point Bar (Deposit of Fluvial Sand) with clear landuse features; open field without any standing crop; Sandy Soil with reasonably good Soil Moisture; No undulation or waterbody/wetland over the Point Bar;**

Arrow Pointed Observation: (1) Gravel Road parallel to DND Flyway. This earthen road was constructed to facilitate construction of DND flyway; movement of earthmovers and construction vehicles etc. This road is in existence since then and is still in use for movement of farm equipment (tractors); construction industry vehicles like dumpers, loaders and trucks etc.

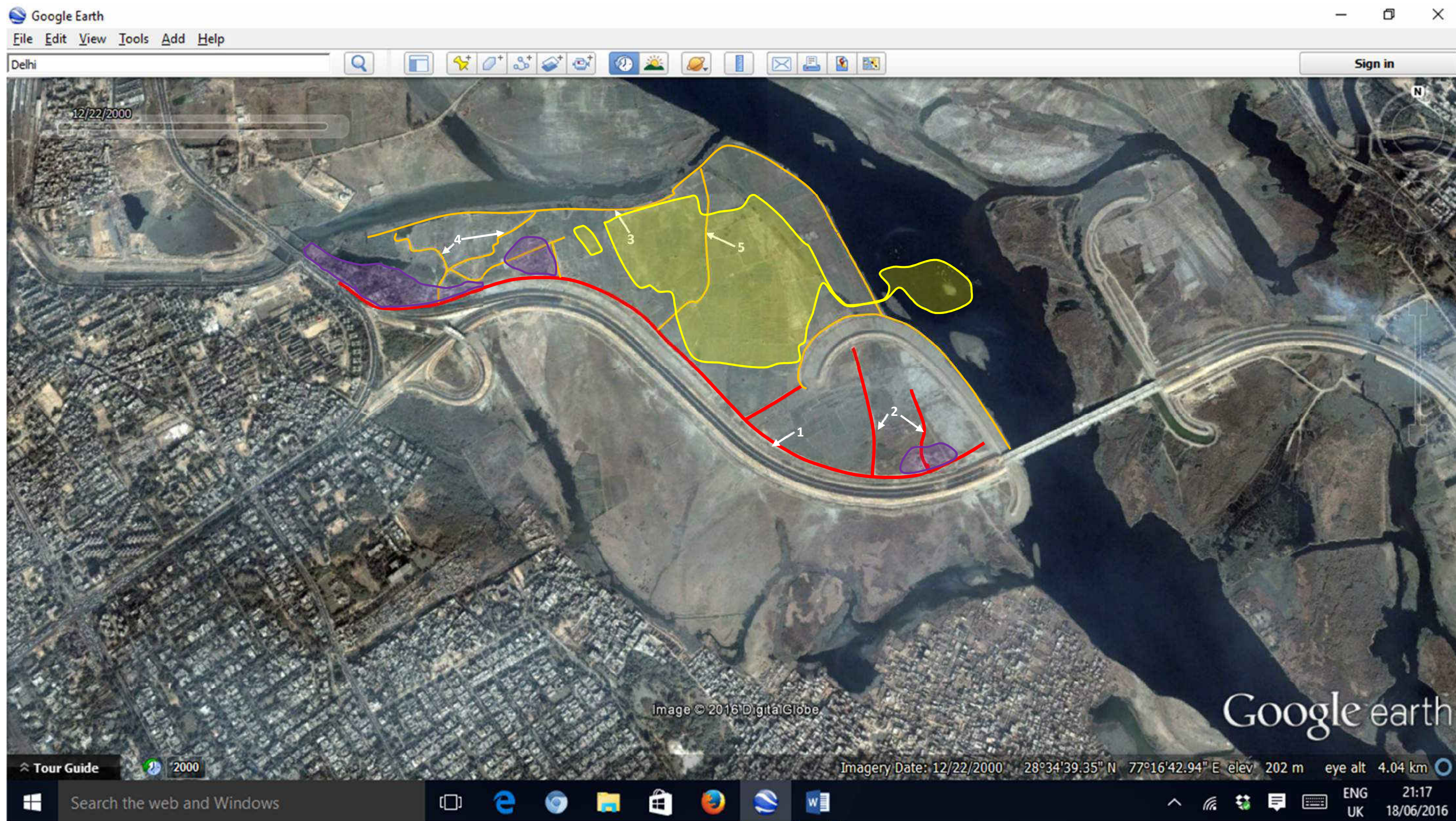
(2) Gravel road facilitating approach to the guide bund used for annual maintenance works; inspection of guide bunds and occasionally used by farmers.

(3) Unpaved Earthen Service Road used primarily by drain cleaning mobile equipment and earthmovers for removal of sludge from Barapullah drain.

(4) & (5) Earthen Trails marked by movement of earthmovers; dumpers and tractors moving on this land parcel.

Heaps of unsolicited dumps of construction debris.





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Heaps of unsolicited dumps of construction debris. Area used for World Culture Festival 2016 of Art of Living Foundation/Vyakti Vikash Kendra





Photo - 1: Undisturbed riparian reeds along Barapullah Drain, Photograph Dated: 17<sup>th</sup> of April 2016



Photo - 2: Undisturbed riparian reeds along Barapullah Drain, Photograph Dated: 17<sup>th</sup> of April 2016





Photo - 3: Undisturbed riparian reeds along Barapullah Drain, Photograph Dated: 17<sup>th</sup> of April 2016



Photo - 4: Undisturbed riparian reeds along Guide Bank on the Land Parcel, Photograph Dated: 17<sup>th</sup> of April 2016





Photo - 5: Undisturbed riparian reeds along the abandoned channel in front of Guide Bank, Photograph Dated: 17<sup>th</sup> of April 2016



Photo - 6: State of grasses on the event venue, Photograph Dated: 17<sup>th</sup> April 2016





Photo - 7: State of grasses on the event venue, Photograph Dated: 17<sup>th</sup> April 2016



Photo - 8: Regrowth of grasses on over the location where once the stage was raised, Photograph Dated: 17<sup>th</sup> of April 2016





Photo – 1: Permanent Ramp – 1 having bituminous pavement existing at least since January 2008



Photo – 2: Permanent Ramp – 2 having bituminous pavement existing at least since January 2008





Photo – 3: One of the three earthen ramp constructed over the embankment of DND Flyway for World Culture Festival 2016



Photo – 4: Second (of the three) earthen ramp constructed over the embankment of DND Flyway for World Culture Festival 2016





Photo – 5: Third (of the three) earthen ramp constructed over the embankment of DND Flyway for World Culture Festival 2016





Photo – 1: Scaffolding structure (showing the highest level) used for construction of the stage; photographed during removal of the stage.



Photo – 2: Steel plate raft used for distribution of load, without any anchorage in the ground; photographed during removal of the stage.





Photo – 3: Photograph of stage resting on scaffolding; the stage was also composed of light weight material.  
(Photograph Sourced from Public Domain)



Photo – 4: Concept of 'Yogic Nail Bed' was used in construction of the stage, which is based on the principle of uniform distribution of weight over a large surface area, therefore overall impact is extremely low/negligible.  
(Photograph Sourced from Public Domain)





Photo – 1: Laying of Pontoon bridges across Yamuna by trained professionals  
(Photograph from External Source)



Photo – 2: Laying of Pontoon bridges across Yamuna by trained professionals  
(Photograph from External Source)





Photo – 3: Laying of pontoon bridges (floating structure) across River Yamuna by trained professionals  
(Photograph from External Source)



Photo – 4: Laying of first pontoon bridges across Yamuna by trained professionals  
(Photograph from External Source)