

CONCEPTO TÉCNICO DE PRECISIÓN A LA CARTOGRAFÍA

CONCEPTO TÉCNICO No. 006 DEL 22 DE MAYO DEL 2017

FECHA: 22 DE MAYO DEL 2017

ASUNTO: Precisión al límite de la Reserva Forestal Protectora Nacional del Río Cali, declarada mediante Resolución No. 9 del 03 de Diciembre de 1938, expedida por el Ministerio de la Economía Nacional.

1. ANTECEDENTES

La Reserva Forestal Protectora Nacional del Río Cali fue declarada mediante la Resolución No. 9 de 1938, es de carácter Nacional, en consideración a que el Ministerio de la Economía Nacional en uso de las facultades establecidas por el artículo 10 de la Ley 200 de 1936, el artículo 40 del Decreto 59 de 1938 y el artículo 20 del Decreto Legislativo 1157 de 1940, facultaban al gobierno para señalar zonas dentro de las cuales deban conservarse o repoblarse los bosques y para tomar medidas sobre el aprovechamiento de los mismos. El artículo primero de la Resolución 9 de 1938 del Ministerio de la Economía Nacional, describe los linderos que delimitan el área reservada localizada en el municipio de Cali, departamento del Valle del Cauca.

De otra parte, mediante Resolución 92 del 15 de julio de 1968, expedida por el Instituto Colombiano de la Reforma Agraria INCORA, aprobada por medio del Decreto 282 de 1968 se declara el Parque Nacional Natural Farallones de Cali. Esta área protegida presenta traslape o superposición con la mencionada Reserva Forestal Protectora Nacional.

Por lo anterior se aplica lo establecido en el artículo 26 del Decreto 2372 de 2010, (compilado en el Decreto 1076 de 2015), sobre superposición de categorías de áreas protegidas: *“No podrán superponerse categorías de manejo de áreas públicas...”*. *“Cuando la superposición se presente con un área del Sistema de Parques Nacionales Naturales, la categoría superpuesta se entenderá sustraída sin la necesidad de ningún trámite y solo se registrará oficialmente la categoría del área del Sistema de Parques Nacionales Naturales”*.

Adicionalmente, el entonces Ministerio del Medio Ambiente mediante la Resolución 0126 de 9 de febrero de 1998 realizó la sustracción de 859,71 hectáreas de la Reserva Forestal del Río Cali, correspondientes a zonas con núcleos de vivienda dispersa y concentrada como: Corregimiento de Pichindé, Corregimiento de La Leonera, Vereda El Porvenir, Corregimiento Felidia - Saladito y Corregimiento La Elvira; zonas con núcleos de vivienda concentrada como: Área de Patio Bonito y Terrón Colorado, Área Las Pilas del Cabuyal y Hacienda Saratoga.

En el año 2005, la publicación “Reservas Forestales Nacionales de Colombia - Atlas básico” elaborada por Conservación Internacional Colombia, Ministerio de Ambiente, Vivienda y Desarrollo Territorial, Instituto Geográfico Agustín Codazzi –IGAC- y La Embajada Real de los Países Bajos, presenta la materialización cartográfica de la reserva en mención, en donde se muestra con líneas punteadas el límite de la totalidad de la Reserva.

Cabe señalar que en la presentación de dicha publicación señala: *“los polígonos que definen las diferentes reservas se dibujaron siguiendo rigurosamente la delimitación descrita en el acto administrativo de creación de cada una de ellas, pero en algunos casos no fue posible efectuar este trazado con precisión, debido a deficiencias en la información toponímica contenida en las cartas geográficas, o a las inconsistencias que en algunos casos presenta la descripción de los límites, especialmente en lo que tiene que ver con la definición de rumbos y distancias. Cuando se presentaron estas circunstancias se optó por trazar el límite con una línea discontinua”*. En el caso del polígono de la Reserva Forestal Protectora Nacional del Río Cali, se evidencia la necesidad de actualizar la información toponímica y precisar la materialización cartográfica con insumos oficiales.

Por lo anterior y con el objetivo de contar con información cartográfica con toponimia actualizada e información en formato shapefile, este Ministerio suscribió con el IGAC el contrato interadministrativo No. 538 de 2012, para brindar apoyo técnico en la documentación de los nombres geográficos relacionados en la Resolución No. 9 del 03 de Diciembre de 1938, obteniendo insumos para realizar la precisión a la materialización cartográfica de la Reserva Forestal Protectora Nacional del Río Cali.

A partir de los anteriores insumos el equipo técnico de la Dirección de Bosques, Biodiversidad y Servicios Ecosistémicos de este Ministerio, elaboró una aproximación al polígono de la reserva forestal, la cual fue revisada conjuntamente con funcionarios de la CVC, los días 12 de abril, 1 y 2 de noviembre del 2016 en la ciudad de Cali. En estas reuniones se identificó la necesidad de ajustar los polígonos de las Reservas Forestales Protectoras Nacionales Río Cali, Río Meléndez, Cerro Dapa-Carisucio y la Elvira soportados en precisiones cartográficas de acuerdo a las delimitaciones establecidas en los actos administrativos de declaratoria, la actualización del polígono del PNN Farallones de Cali en el RUNAP y los insumos cartográficos generados por el IGAC. Sumado al conocimiento particular y concreto del territorio por parte de los funcionarios de la CVC.

Por otra parte, se evidenció la necesidad de disponer de insumos jurídicos y técnicos adicionales, por lo cual se realizó un proceso de selección abreviada de menor cuantía y se suscribió el contrato No. 529 de 2016 con Andean Geological Services Limitada – AGS -, cuyo objeto fue generar insumos técnicos y jurídicos para el fortalecimiento de la gestión de cinco Reservas Forestales Protectoras Nacionales priorizadas: Río Cali, Río Meléndez, La Elvira, Cerro Dapa-Carisucio y Sonso Guabas. Para cumplir con el objeto se revisaron los actos administrativos de declaratoria, imágenes satelitales, cartografía IGAC a escalas detalladas y trabajo de campo. Entre los productos se obtuvo una propuesta de materialización cartográfica para la Reserva Forestal Protectora Nacional del Río Cali, que incluye cartera de coordenadas, modelo digital de elevación –DEM 12,5 metros- y coberturas de la tierra a escala 1:25000, los cuales fueron revisados por el equipo técnico de la Dirección de Bosques, Biodiversidad y Servicios Ecosistémicos.

Finalmente, se recomienda que los ajustes y actualización propuesta al polígono de la RFPN del Río Cali sean adoptados por el Ministerio mediante acto administrativo, de manera que se actualice la delimitación del área protegida incluyendo las coordenadas en sistema de referencia Magna Sirgas, origen Oeste con su respectivo shapefile.

INFORMACIÓN BASE

Publicación en el Diario Oficial No. 23987 de la Resolución No. 9 del 03 de Diciembre de 1938: “Para la conservación y regularización de las aguas del río Cali, declárense reservados los bosques que aún existen en la hoya hidrográfica de este río, dentro de los siguientes linderos...”.

Resolución No. 92 del 15 de julio de 1968: “Por la cual se reserva y declara PARQUES NACIONALES NATURALES a las zonas conocidas como FARALLONES DE CALI, en el Departamento del Valle del Cauca y PURACE en los Departamentos del Cauca y del Huila”.

Productos Contrato Interadministrativo No. 538 De 2012: Informe Final De Actividades Con Cartografía Anexa “Análisis Lingüístico, Histórico Y Geográfico De La Toponimia De La Reserva Forestal Protectora del Río Cali”. IGAC, (2012).

Productos Contrato No. 529 de 2016: Informe Final De Actividades Con Cartografía Anexa “Generar insumos técnicos y jurídicos para el fortalecimiento de la gestión de cinco Reservas Forestales Protectoras Nacionales priorizadas: Río Cali, Río Meléndez, La Elvira, Cerro Dapa-Carisucio y Sonso Guabas”. AGS, (2016).

2. ANÁLISIS DE LA INFORMACIÓN Y CONSIDERACIONES

El acto administrativo a través del cual se declaró la Reserva Forestal Protectora Nacional Río Cali fue expedido en el año 1938; en la delimitación aparecen referencias geográficas físicas en su mayoría definidas para que sean identificables y reconocibles –Arcifinios-, construcciones (toma del canal, para el acueducto de Cali) y el antiguo camino de herradura; después de transcurridos más de 75 años, en la representación cartográfica actual pueden ser imprecisas y en algunos casos imposible de identificar por la variación de los elementos debido a fenómenos naturales, antrópicos o considerando que los nombres locales de los elementos del paisaje son dinámicos a lo largo del tiempo o desaparecen para ser reemplazados por nombres nuevos.

Adicionalmente, es importante mencionar que el polígono de la Reserva Forestal del Río Cali correspondiente a la materialización cartográfica de la delimitación establecida mediante la Resolución 9 de 1938, presenta un sector con traslape o superposición con el polígono del Parque Nacional Natural Farallones de Cali. Por lo anterior se aplica lo establecido en el artículo 26 del Decreto 2372 de 2010 sobre superposición de categorías de áreas protegidas: “No podrán superponerse categorías de manejo de áreas públicas...”. Cuando la superposición se presenta con un área del Sistema de Parques Nacionales Naturales, la categoría superpuesta se entenderá sustraída sin la necesidad de ningún trámite y solo se registrará oficialmente la categoría del área del Sistema de Parques Nacionales Naturales.

Teniendo en cuenta que la materialización cartográfica de la RFPN del Río Cali, contenida en el documento “Reservas Forestales Protectoras Nacionales de Colombia - Atlas Básico (2005)”, presenta imprecisiones en el trazado del polígono, debido a deficiencias en la información toponímica contenida en las cartas geográficas o a las inconsistencias en la descripción de los límites, fue necesario el apoyo técnico del IGAC y los productos del contrato No. 529 del 2016, para precisar la ubicación de los objetos geográficos descritos en la resolución de declaratoria y actualizar la materialización cartográfica de la Reserva Forestal Protectora Nacional del Río Cali.

Como punto de partida del análisis se revisó el acto administrativo de creación de la reserva, con el fin de conocer la arqueología documental de la misma. A partir de esta información se conocieron los cambios espaciales de esta área protegida, desde su declaratoria hasta la actualidad.

Entre los insumos básicos para esta precisión cartográfica fue la cartografía a escala 1:25.000 fuente IGAC año 2014, la cual es la más actualizada en temporalidad con mayor exactitud posicional y oficialidad del dato. Para algunas áreas, sobre todo áreas metropolitanas y sus alrededores, fue posible contar con cartografía de referencia a escalas

más detalladas, 1:10.000, 1:5.000 y 1:2.000. Esto permitió tener una base del contexto geográfico de la RFPN para realizar el proceso de ajuste de límites.

Así mismo, se dispuso del modelo Digital de Elevación o del Terreno DEM, que cumple una funcionalidad importante al momento de definir un Arcifinio establecido por una cuchilla o por una divisoria de aguas; estos datos fueron validados para establecer exactitud posicional, actualización y resolución espacial.

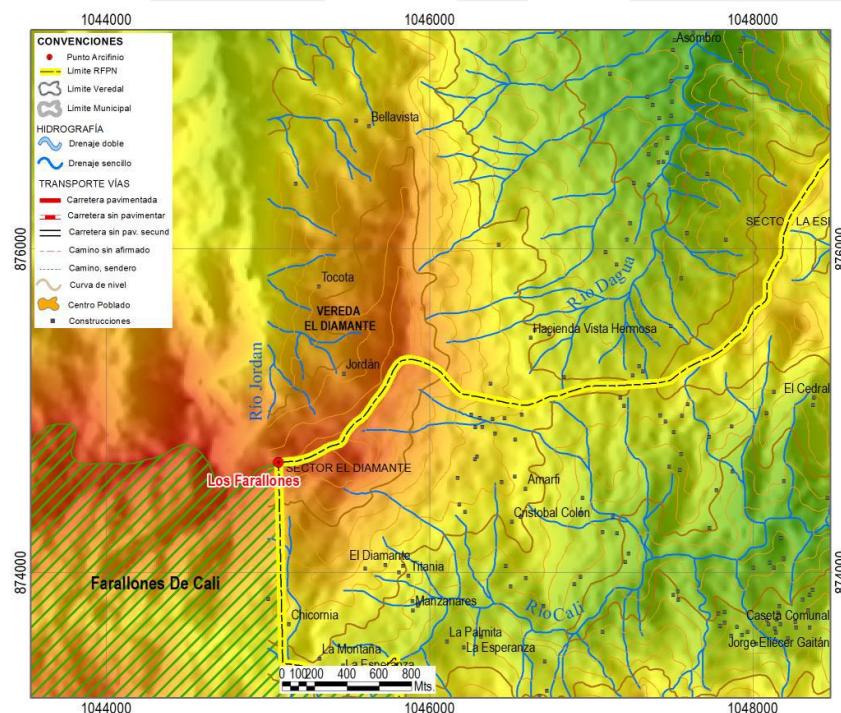
Con base en los insumos mencionados anteriormente, se procedió a precisar y aclarar el polígono que delimita la RFPN del Río Cali:

Vértice 1: “Desde el punto denominado “Los Farallones”, en el filo de la Cordillera Occidental de los Andes...”

Como se mencionaba anteriormente, esta parte del polígono de que trata la Resolución 9 de 1938, se superpone o traslapa espacialmente con áreas del Parque Nacional Natural Farallones de Cali, por tal motivo fue necesario precisar el límite oeste de la RFPN del Río Cali, el cual se describe de la siguiente manera:

“Desde el punto con coordenadas planas Magna-Sirgas, origen Oeste X: 1052478,28933 y Y: 870023,237, siguiendo en dirección Noroeste por el límite del Parque Nacional Natural Farallones de Cali, hasta encontrar el punto con coordenadas X: 1045065,83188 y Y: 874676,89796 en el filo de la Cordillera Occidental de los Andes...”

Figura 1. Vértices que limitan con el PNN Farallones de Cali



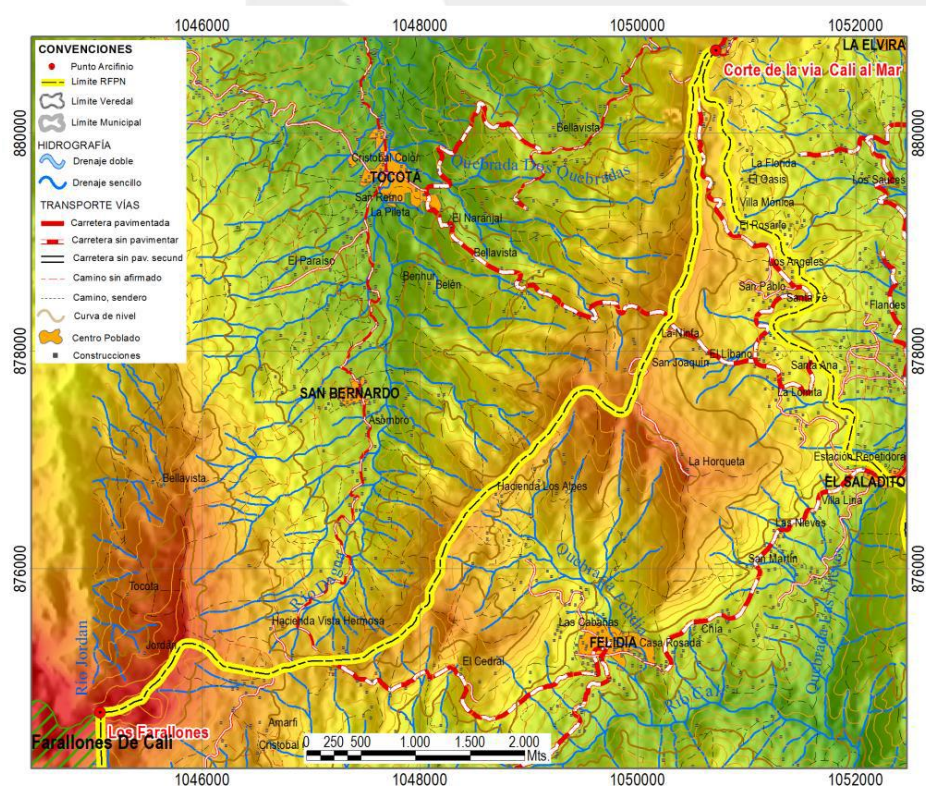
Vértice 1 y 2. DEM 12,5m Alos Palsar, Plancha 299IIB 2014, IGAC. Coordenadas proyectadas Magna Sirgas origen Oeste.

Considerando lo anterior, se define lo siguiente: **Vértice 1, ubicado en las coordenadas X: 1052478,28933 y Y: 870023,237; Vértice 2, ubicado en las coordenadas X: 1045065,83188 y Y: 874676,89796; Sistema Magna-Sirgas origen Oeste.**

Vértice 3: “... de este punto, siguiendo en dirección Norte por el filo de esta Cordillera, hasta el sitio donde la corta la carretera de Cali al mar;...”

El filo de la Cordillera Occidental de los Andes se identifica a partir de la información del sensor SAR ALOS perteneciente a la agencia Japonesa de Exploración Aeroespacial, que cuenta con el sensor PALSAR el cual toma imágenes con Radar; se utiliza el producto Terrain Corrected (RTC), específicamente el GeoTIFF que es el mapa de ángulo de incidencia en formato raster y el DEM INT16 GeoTIFF de 12.5 metros que corresponde al Modelo Digital de Elevación, con los cuales se determinan las cuencas hidrográficas ajustándolas con la cartografía IGAC 2014 a escala 1:25.000 específicamente con las curvas de nivel. (Figura 2).

Figura 2. Filo de la Cordillera Occidental de los Andes

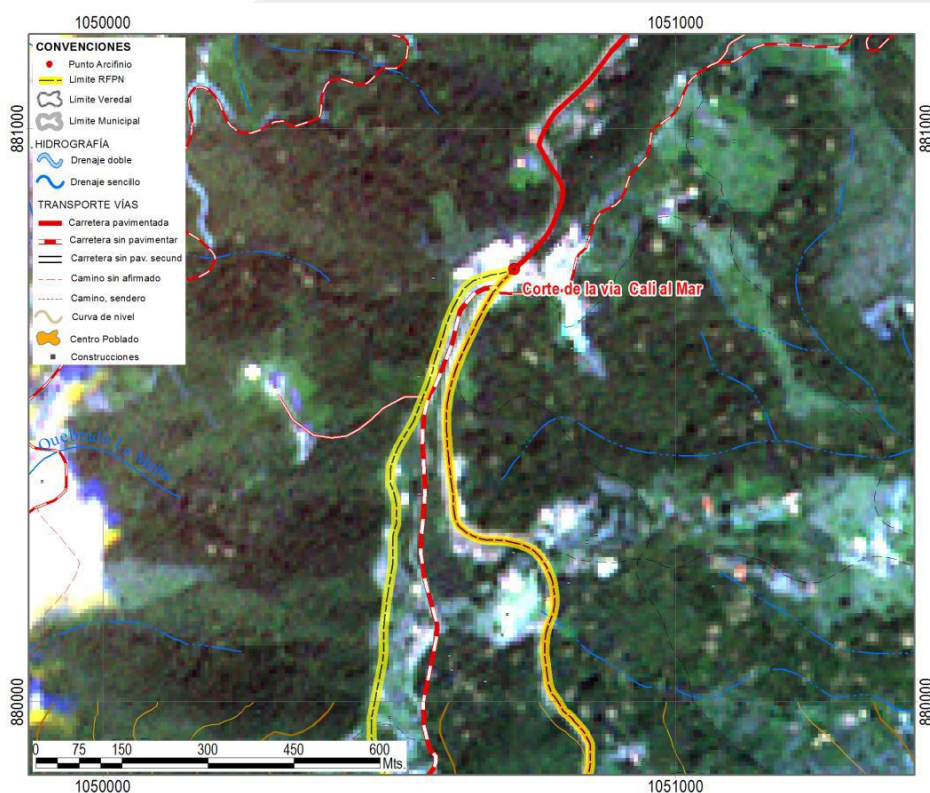


Filo de la Cordillera Occidental de los Andes. Fuente: DEM 12,5m Alos Palsar, Plancha 299IIB 2014, IGAC.

Por otra parte, el nombre geográfico a documentar es la **Carretera de Cali al mar**, la cual Según el contrato interadministrativo No. 538 de 2012 entre el ministerio y el IGAC, se encuentra localizada en la cartografía de 1984 a escala 1:25.000, también en la cartografía de los años de 1950, 66 y 77 a escala 1:10.000. Esta carretera es un punto de referencia en la demarcación de la reserva hacia el norte, ya que la línea es trazada por toda la divisoria de aguas

entre el río Felidia y Dagua; es de resaltar que el camino antiguo de Cali a Dagua también refiere esta carretera y en 1943 cuando se agregó la cuenca del río Aguacatal se inicia la limitación desde este punto hacia el norte de la reserva; actualmente la carretera de Cali al mar se encuentra en la plancha 279IVD del IGAC escala 1:25000 y año de referencia 2014 (Figura 3).

Figura 3. Cruce de la Carretera de Cali al Mar con la Cordillera Occidental de los Andes.



Vértice 3 ubicado en la plancha 279-IV-D. IGAC, 2014.

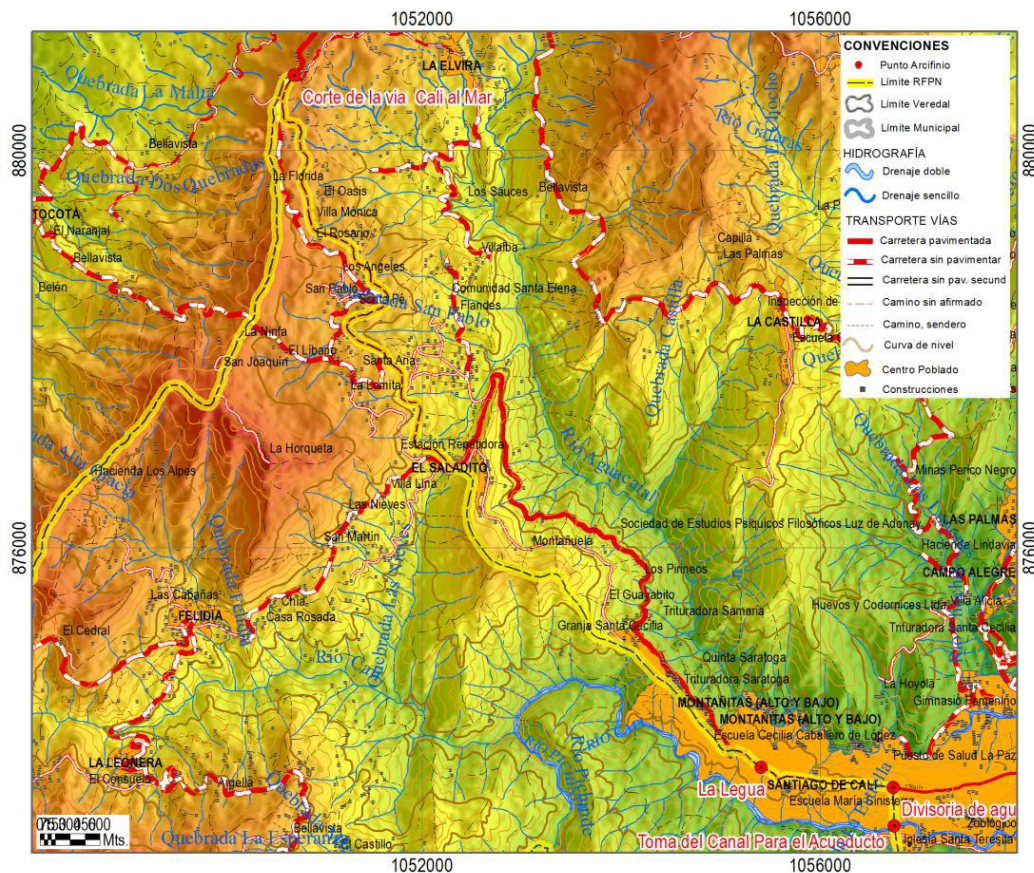
Considerando lo anterior, se define lo siguiente: Vértice 3, ubicado en las coordenadas X: 1050762,69562 y Y: 880785,11237; Sistema Magna-Sirgas origen Oeste.

Vértice 4: “...de aquí, se sigue por el filo de la Cordillera que sirve de divorcio de las aguas de los ríos Cali y Aguacatal, hasta el punto denominado “La Legua”;...”

El nombre geográfico a documentar es el **divorcio de las aguas de los ríos Cali y Aguacatal**, según el contrato interadministrativo No. 538 de 2012 entre el ministerio y el IGAC, el Río Aguacatal está Localizado en la cartografía de 1984 a escala 1:25.000 y en la de 1950, 1966 a escala 1:10.000; por otra parte, la línea divisoria de aguas se identifica a partir del DEM de 12.5 metros el cual se ajusta con la cartografía IGAC 2014 a escala 1:25.000, específicamente con las curvas de nivel.

En la Figura No. 4, se observan las cuencas de los ríos Cali y Aguacatal evidenciando que desde el vértice No. 3 (el Km 18), es imposible iniciar con la divisoria de aguas; por lo cual se debe seguir por la vía Cali al Mar recorriéndola hasta el punto denominado **“La Legua”** (Figura 4).

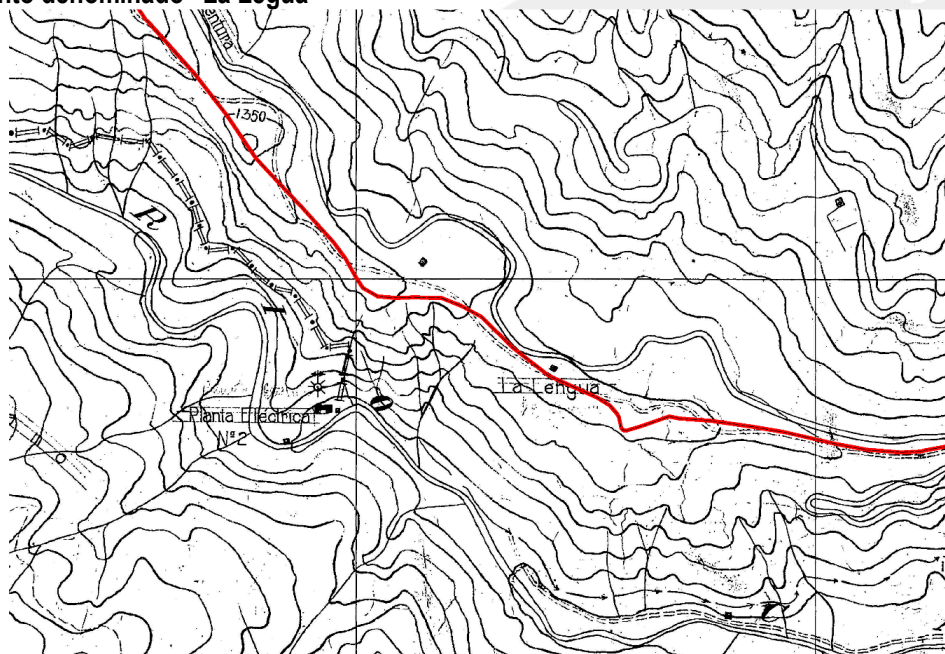
Figura 4. Vía Cali al mar



Vía Cali al mar ubicada en la plancha 299-II-B. IGAC, 2014.

Por otra parte, el punto denominado “La Legua” se encuentra localizado en la cartografía de 1984 a escala 1:25.000 y la de 1950 a escala 1:10.000. El nombre lo recibió porque el sitio se encontraba ubicado en el camino de Cali a Dagua a una distancia de una legua de la ciudad. En la figura No. 5 se observa la localización del sitio “La Legua”, en cartografía IGAC del año 1950.

Figura 5. Punto denominado "La Legua"



Localización geográfica Punto denominado "La Legua".

Fuente: Hoja 1:10.000 año 1950 IGAC. Coordenadas proyectadas Magna Sirgas origen Oeste.

Considerando lo anterior, fue necesario precisar el límite norte de la RFPN del Río Cali, el cual se describe de la siguiente manera:

"...de aquí, se sigue por la carretera de Cali al mar, hasta el punto denominado "La Legua" con coordenadas X: 1055442,73812 y Y: 873781,87603;..."

Vértice 5: "...de aquí, se sigue por el antiguo camino de herradura de Cali a Dagua, en una longitud de diez (10) kilómetros;..."

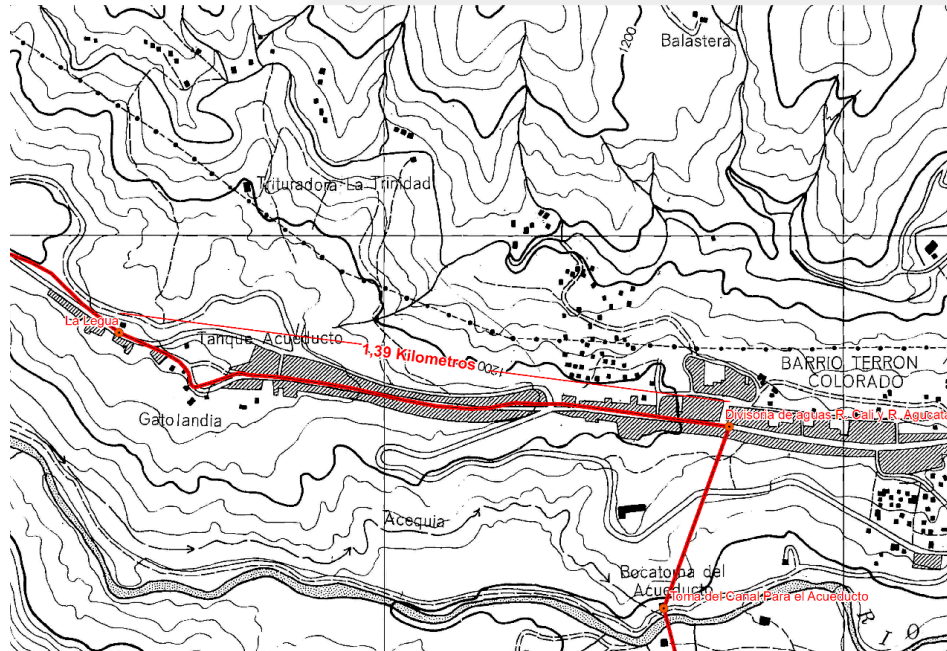
El nombre geográfico a documentar es el **antiguo camino de herradura de Cali a Dagua, en una longitud de diez (10) kilómetros**. Según el contrato interadministrativo No. 538 de 2012 entre el ministerio y el IGAC, este camino de herradura se encuentra ubicado en la cartografía de 1984 a escala 1:25.000 y 1:10.000 de los años de 1950, 66, 77 y 83; en la actualidad es un camino carretable que comunica las fincas ubicadas a lo largo de su tramo, inicia en la ciudad y hace parte de las principales calles del barrio Terrón Colorado.

Se miden los 10 kilómetros sobre la cartografía escala 1:10.000 de 1950 en la plancha 299IIB4 y es totalmente improbable que sea esta distancia ya que se internaría en la ciudad de Cali, se considera que hay un error en la inclusión del valor de la distancia "10 kilómetros".

Respecto a lo anterior, fue necesario precisar el límite norte de la RFPN del Río Cali, el cual se describe de la siguiente manera:

“...de aquí, se sigue por el antiguo camino de herradura de Cali a Dagua, en una longitud de uno punto tres kilómetros aproximadamente (1,3 km), hasta el punto con coordenadas X: 1056737,35207 y Y: 873585,46081;...” (Figura 6).

Figura 6. Ubicación Vértice No. 5

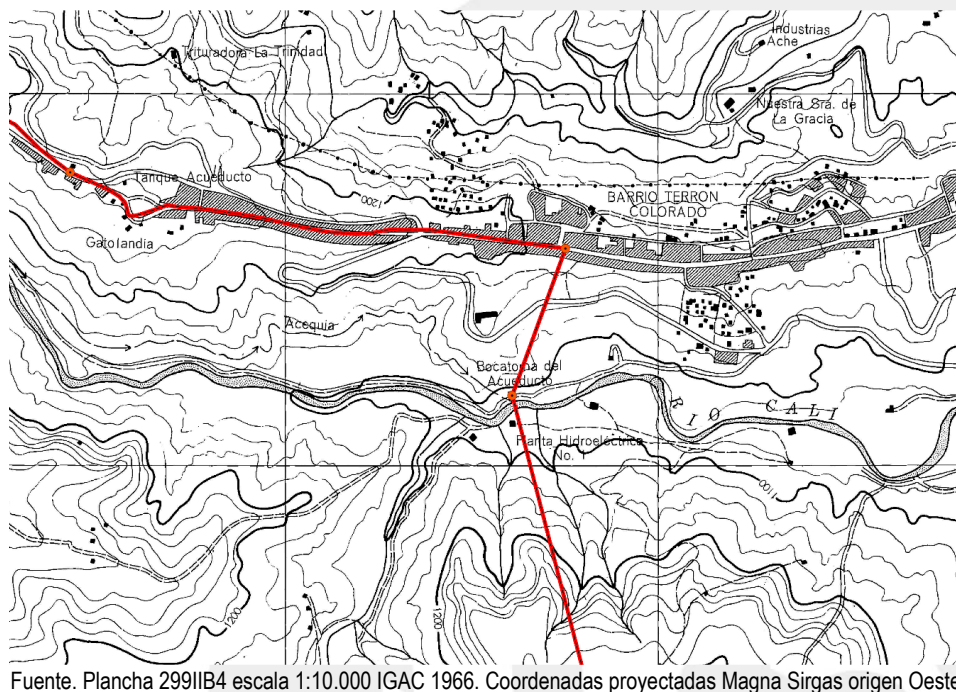


Vértice 5 ubicado en la plancha 299IIB4 año 1966, escala 1:10.000.

Vértice 6: “...de aquí, una línea recta a la toma del canal, para el acueducto de Cali;...”

El nombre geográfico a documentar es la **toma del canal para el acueducto de Cali**. En la cartografía del IGAC a escala 1:10.000 del año 1966, se localiza el punto “Bocatoma del acueducto de Cali”, el cual se puede interpretar como la “toma del canal para el acueducto de Cali”. (Figura 7)

Figura 7. Ubicación Vértice No. 6



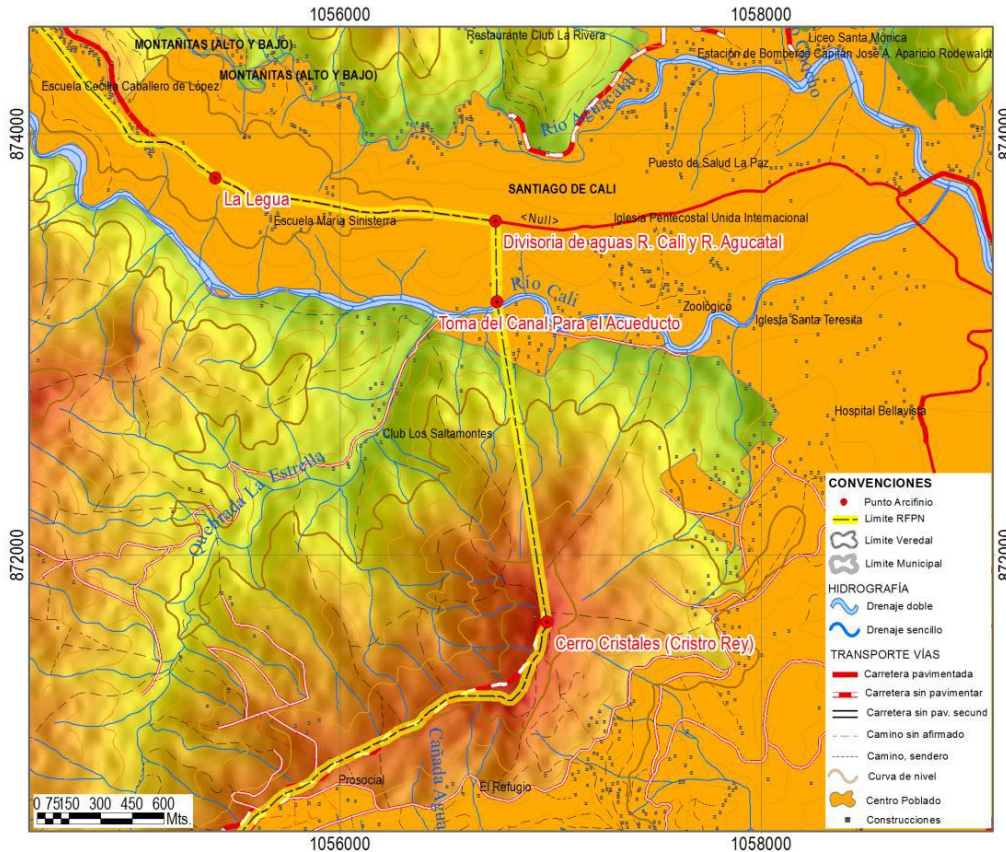
Respecto a lo anterior, se define el vértice 6, ubicado en las coordenadas planas Magna-Sirgas, origen Oeste X: 1056745,23117 y Y: 873201,947205.

Vértice 7: “...de aquí, una recta al cerro denominado “Cristales”;...”

Según el contrato interadministrativo No. 538 de 2012 entre el ministerio y el IGAC, el cerro denominado “Cristales” se encuentra localizado en la cartografía de 1984 a escala 1:25.000 y la fotografía aérea de 1975 vuelo C-1514 foto No. 130. El cerro se encuentra en la divisoria de aguas entre los Ríos Cali y Cañaveralejo, a una altura aproximada de 1487 msnm, es un punto de referencia de la reserva ya sea hacia el sur o norte de la misma, en la actualidad se conoce como el **Cerro Cristo Rey** y se encuentra en la cartografía 1:25.000 IGAC en la plancha 299IIB del año 2014.

Se muestra en la figura la localización del punto alto divisor de aguas, que coincide con el llamado Cerro Cristales según la cartografía IGAC 1:10.000 del año 1950, hoy en día en la cartografía oficial, su topónimo es **Cerro Cristo Rey**. (Figura 8)

Figura 8. Ubicación del Cerro Cristo Rey



Fuente. Alos Palsar. Hoja Cartográfica 299IIB 2014, IGAC. Coordenadas proyectadas Magna Sirgas origen Oeste.

Respecto a lo anterior, se define el vértice 7, ubicado en las coordenadas planas Magna-Sirgas, origen Oeste X: 1056821,63862 y Y: 871263,32095 denominado actualmente como **“CERRO CRISTO REY”**.

Vértice 8: “...y de este punto, por el filo de la Cordillera que divide las aguas de los ríos Cali y Meléndez, hasta el sitio de “Los Farallones”, en la Cordillera Occidental de los Andes, que es el punto de partida.”

Las líneas divisorias de agua se identifican a partir de la información del sensor SAR ALOS perteneciente a la agencia Japonesa de Exploración Aeroespacial, que cuenta con el sensor PALSAR el cual toma imágenes con Radar, se utiliza el producto Terrain Corrected (RTC), específicamente el GeoTIFF que es el mapa de ángulo de incidencia en formato raster, DEM INT16 GeoTIFF de 12.5 metros que corresponde al Modelo Digital de elevación, con el cual se realiza un geoproceto para simular las cuencas hidrográficas la jurisdicción de la CVC, la cual se ajusta con cartografía IGAC 2014 a escala 1:25.000 específicamente con las curvas de nivel.

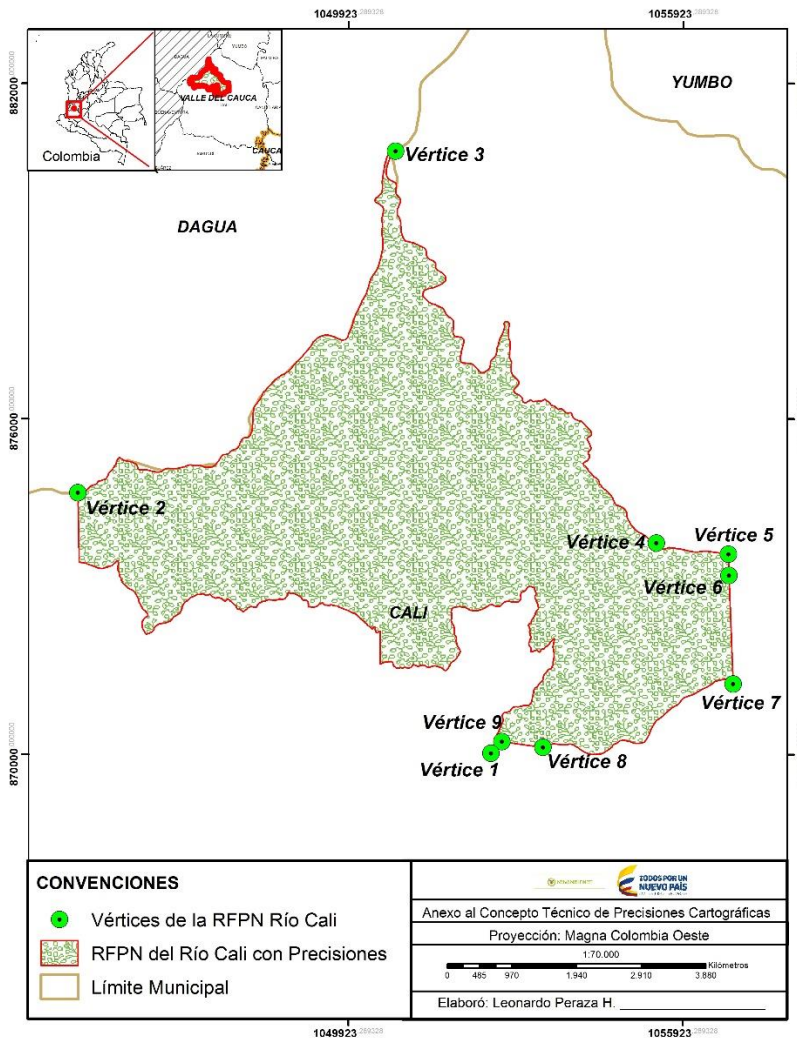
Como se mencionaba anteriormente, esta parte del polígono de que trata la Resolución No. 9 de 1938, se superpone o traslapa con áreas del Parque Nacional Natural Farallones de Cali, por tal motivo fue necesario precisar el límite sur de la RFPN del Río Cali, el cual se describe de la siguiente manera:

“...y de este punto, por el filo de la Cordillera que divide las aguas de los ríos Cali y Meléndez, hasta el encontrar el punto con coordenadas X: 1053411,7561 y Y: 870130,0843; de este punto, en línea recta, hasta el encontrar el punto con coordenadas X: 1052674,7052 y Y: 870230,7046; de aquí, se sigue en dirección Sur por la línea que divide las aguas del Río Pichindé con las del Río Cañaveralejo, hasta encontrar el punto con coordenadas X: 1052478,2893 y Y: 870023,237 tomado como punto de partida.”

Las coordenadas que delimitan el polígono precisado de la RFPN del Río Cali se encuentran en el anexo 1.

Finalmente, con base en el análisis efectuado, a continuación se presenta el polígono resultante de las precisiones y a la materialización cartográfica.

Reserva Forestal Protectora Nacional del Río Cali



3. CONCEPTO

Teniendo en cuenta el análisis y consideraciones anteriormente expuestas, se recomienda proyectar el acto administrativo mediante el cual se acojan las precisiones cartográficas propuestas al límite de la Reserva Forestal Protectora Nacional del Río Cali.

A continuación se describe el límite de la Reserva Forestal Protectora Nacional del Río Cali en Sistema de coordenadas Magna-Sirgas origen Oeste:

“Desde el punto con coordenadas planas Magna-Sirgas, origen Oeste X: 1052478,28933 y Y: 870023,237, siguiendo en dirección Noroeste por el límite del Parque Nacional Natural Farallones de Cali, hasta encontrar el punto con coordenadas X: 1045065,83188 y Y: 874676,89796 en el filo de la Cordillera Occidental de los Andes; de este punto, siguiendo en dirección Norte por el filo de esta Cordillera, hasta el sitio donde corta la carretera de Cali al mar, punto con coordenadas X: 1050762,69562 y Y: 880785,11237; de aquí, se sigue por la carretera de Cali al mar, hasta el punto denominado “La Legua” con coordenadas X: 1055442,73812 y Y: 873781,87603; de este punto, se sigue por el antiguo camino de herradura de Cali a Dagua, en una longitud de uno punto tres kilómetros aproximadamente (1,3 km) hasta el punto con coordenadas X: 1056737,35207 y Y: 873585,46081; de aquí, una línea recta a la toma del canal, para el acueducto de Cali, punto con coordenadas X: 1056745,23117 y Y: 873201,947205; de este punto, una recta al cerro denominado “Cristo Rey” punto con coordenadas X: 1056821,63862 y Y: 871263,32095; de este sitio, por el filo de la Cordillera que divide las aguas de los ríos Cali y Meléndez, hasta el encontrar el punto con coordenadas X: 1053411,7561 y Y: 870130,0843; de este punto, en línea recta, hasta el encontrar el punto con coordenadas X: 1052674,7052 y Y: 870230,7046; y de aquí, se sigue en dirección Sur por la línea que divide las aguas del Río Pichindé con las del Río Cañaveralejo, hasta encontrar el punto con coordenadas X: 1052478,2893 y Y: 870023,237 tomado como punto de partida.”

Es el concepto de:

Alba Lucia Montenegro – Profesional Especializado
Sandra Carolina Díaz – Profesional Especializado
Ricardo Rivera Rodríguez – Profesional Especializado
Leonardo Peraza Herrera – Contratista SIG

ANEXO: Coordenadas y Shapefile (1 CD)

ANEXO 1. COORDENADAS MAGNA-SIRGAS ORIGEN OESTE QUE DELIMITAN EL POLÍGONO PRECISADO DE LA RFPN DEL RÍO CALI.

| ID | X | Y |
|----|--------------|-------------|
| 1 | 1050746,5885 | 880769,1478 |
| 2 | 1050715,4075 | 880737,3243 |
| 3 | 1050700,5114 | 880723,3086 |
| 4 | 1050697,6336 | 880720,6008 |
| 5 | 1050678,2559 | 880702,3683 |
| 6 | 1050662,3431 | 880672,3142 |
| 7 | 1050650,8650 | 880638,9547 |
| 8 | 1050610,1939 | 880534,3679 |
| 9 | 1050600,9968 | 880464,6625 |
| 10 | 1050596,6050 | 880385,4004 |
| 11 | 1050607,4386 | 880325,1620 |
| 12 | 1050625,9843 | 880297,3464 |
| 13 | 1050664,4777 | 880266,6146 |
| 14 | 1050730,6023 | 880235,4082 |
| 15 | 1050770,3113 | 880216,7728 |
| 16 | 1050773,9876 | 880194,6817 |
| 17 | 1050777,6935 | 880168,4461 |
| 18 | 1050772,8428 | 880134,4503 |
| 19 | 1050768,3894 | 880079,8232 |
| 20 | 1050771,3162 | 880031,1384 |
| 21 | 1050782,2259 | 880002,6561 |
| 22 | 1050795,1133 | 879999,9999 |
| 23 | 1050800,0100 | 879991,4772 |
| 24 | 1050803,5092 | 879985,3864 |
| 25 | 1050831,2902 | 879960,2508 |
| 26 | 1050852,0014 | 879928,1479 |
| 27 | 1050851,8440 | 879890,6794 |
| 28 | 1050840,1159 | 879852,7885 |
| 29 | 1050830,1921 | 879834,7453 |
| 30 | 1050815,7574 | 879795,9522 |
| 31 | 1050802,2250 | 879767,9851 |
| 32 | 1050796,8120 | 879749,9420 |
| 33 | 1050792,3012 | 879699,4209 |
| 34 | 1050796,8120 | 879647,9976 |
| 35 | 1050811,8082 | 879623,1102 |
| 36 | 1050831,9207 | 879589,7324 |
| 37 | 1050852,7462 | 879523,4989 |
| 38 | 1050858,1591 | 879435,0870 |
| 39 | 1050863,5721 | 879347,5771 |
| 40 | 1050884,4415 | 879276,1083 |
| 41 | 1050887,0036 | 879267,3341 |
| 42 | 1050913,0685 | 879208,1599 |
| 43 | 1050917,7706 | 879203,3435 |
| 44 | 1050940,6593 | 879179,8987 |
| 45 | 1050949,5949 | 879177,9354 |
| 46 | 1050959,1330 | 879175,8399 |
| 47 | 1051015,1354 | 879163,5359 |
| 48 | 1051092,7214 | 879147,2969 |
| 49 | 1051138,4056 | 879121,0808 |
| 50 | 1051153,0547 | 879114,5575 |
| 51 | 1051257,8174 | 879067,9065 |
| 52 | 1051286,7995 | 879047,7208 |
| 53 | 1051311,1777 | 879009,8298 |
| 54 | 1051312,0305 | 878997,6117 |
| 55 | 1051313,8642 | 878971,9390 |
| 56 | 1051319,2772 | 878924,5754 |
| 57 | 1051331,4565 | 878886,6846 |
| 58 | 1051349,8804 | 878873,1737 |
| 59 | 1051382,2031 | 878849,4703 |
| 60 | 1051447,1589 | 878820,3756 |
| 61 | 1051466,7810 | 878802,1068 |
| 62 | 1051477,9693 | 878784,9952 |
| 63 | 1051481,8731 | 878771,6735 |
| 64 | 1051483,1227 | 878767,4091 |
| 65 | 1051485,0497 | 878760,8328 |
| 66 | 1051484,3731 | 878732,4147 |
| 67 | 1051484,3731 | 878726,4385 |

| ID | X | Y |
|-----|--------------|-------------|
| 68 | 1051484,3730 | 878701,2900 |
| 69 | 1051508,0549 | 878665,4291 |
| 70 | 1051529,8564 | 878652,6046 |
| 71 | 1051554,0652 | 878638,3642 |
| 72 | 1051602,7819 | 878606,5629 |
| 73 | 1051634,5833 | 878577,4682 |
| 74 | 1051651,4989 | 878553,7863 |
| 75 | 1051653,1512 | 878549,0653 |
| 76 | 1051660,9716 | 878526,7214 |
| 77 | 1051661,5662 | 878510,9654 |
| 78 | 1051662,3248 | 878490,8604 |
| 79 | 1051654,8819 | 878467,1788 |
| 80 | 1051631,8768 | 878442,8703 |
| 81 | 1051604,1353 | 878422,5216 |
| 82 | 1051562,8614 | 878398,8398 |
| 83 | 1051487,0795 | 878367,7153 |
| 84 | 1051436,3329 | 878341,3270 |
| 85 | 1051362,5811 | 878334,5608 |
| 86 | 1051305,0682 | 878310,2023 |
| 87 | 1051267,8539 | 878286,5206 |
| 88 | 1051259,7345 | 878258,1025 |
| 89 | 1051248,9085 | 878231,7142 |
| 90 | 1051252,2916 | 878201,2662 |
| 91 | 1051268,1991 | 878182,8470 |
| 92 | 1051290,8591 | 878156,6090 |
| 93 | 1051314,7225 | 878134,2643 |
| 94 | 1051365,2876 | 878086,9169 |
| 95 | 1051441,0693 | 878051,0560 |
| 96 | 1051454,5188 | 878047,6760 |
| 97 | 1051479,2565 | 878041,4592 |
| 98 | 1051532,9668 | 878015,5136 |
| 99 | 1051603,9611 | 877981,2188 |
| 100 | 1051616,4323 | 877975,1943 |
| 101 | 1051617,6677 | 877974,5977 |
| 102 | 1051647,4390 | 877913,0250 |
| 103 | 1051673,8274 | 877869,7212 |
| 104 | 1051725,9272 | 877826,4174 |
| 105 | 1051767,9085 | 877795,2496 |
| 106 | 1051770,5844 | 877793,2628 |
| 107 | 1051790,8831 | 877767,5512 |
| 108 | 1051793,1862 | 877761,4093 |
| 109 | 1051794,9265 | 877756,7686 |
| 110 | 1051799,0025 | 877745,8993 |
| 111 | 1051801,7090 | 877703,9487 |
| 112 | 1051798,3259 | 877635,6099 |
| 113 | 1051793,5895 | 877589,5995 |
| 114 | 1051790,2064 | 877551,0320 |
| 115 | 1051794,2812 | 877529,9178 |
| 116 | 1051797,6493 | 877512,4646 |
| 117 | 1051816,5946 | 877490,1360 |
| 118 | 1051835,5401 | 877477,2802 |
| 119 | 1051849,8278 | 877474,5443 |
| 120 | 1051887,2172 | 877467,3846 |
| 121 | 1051931,8742 | 877463,8324 |
| 122 | 1051958,2625 | 877447,5935 |
| 123 | 1051983,1283 | 877420,6977 |
| 124 | 1051990,2328 | 877394,8169 |
| 125 | 1051988,5115 | 877384,2535 |
| 126 | 1051988,4984 | 877384,1735 |
| 127 | 1051986,2001 | 877370,0711 |
| 128 | 1051947,7045 | 877212,8084 |
| 129 | 1051930,8593 | 877129,4117 |
| 130 | 1051929,9840 | 877126,1297 |
| 131 | 1051920,7099 | 877091,3518 |
| 132 | 1051923,2473 | 877065,4710 |
| 133 | 1051938,4713 | 877026,3961 |
| 134 | 1051950,6505 | 877012,1870 |

| ID | X | Y |
|-----|--------------|-------------|
| 135 | 1051971,9640 | 877001,5302 |
| 136 | 1051976,6112 | 877000,9940 |
| 137 | 1052011,5465 | 876996,9629 |
| 138 | 1052058,7409 | 876995,4405 |
| 139 | 1052091,7261 | 876994,4255 |
| 140 | 1052143,4878 | 876979,7091 |
| 141 | 1052168,3538 | 876959,9178 |
| 142 | 1052182,5538 | 876943,7372 |
| 143 | 1052200,8804 | 876927,5846 |
| 144 | 1052227,3459 | 876899,2721 |
| 145 | 1052254,7603 | 876865,0941 |
| 146 | 1052257,6680 | 876861,4693 |
| 147 | 1052277,9665 | 876836,6034 |
| 148 | 1052317,0415 | 876824,4242 |
| 149 | 1052341,0843 | 876829,7671 |
| 150 | 1052349,0118 | 876831,5287 |
| 151 | 1052372,6779 | 876847,4355 |
| 152 | 1052379,9674 | 876852,3349 |
| 153 | 1052398,7436 | 876864,5141 |
| 154 | 1052429,1916 | 876885,3203 |
| 155 | 1052453,5501 | 876915,7682 |
| 156 | 1052463,1918 | 876959,4104 |
| 157 | 1052467,7591 | 876994,4255 |
| 158 | 1052467,6689 | 876998,1225 |
| 159 | 1052467,2517 | 877015,2318 |
| 160 | 1052472,3262 | 877035,5305 |
| 161 | 1052477,7805 | 877040,8431 |
| 162 | 1052511,4012 | 877073,5904 |
| 163 | 1052543,8791 | 877109,6205 |
| 164 | 1052560,1180 | 877134,4864 |
| 165 | 1052561,4163 | 877134,6582 |
| 166 | 1052566,7151 | 877164,4270 |
| 167 | 1052580,4168 | 877209,0841 |
| 168 | 1052581,4316 | 877230,9051 |
| 169 | 1052582,4466 | 877251,7112 |
| 170 | 1052582,9541 | 877263,3830 |
| 171 | 1052590,5661 | 877284,1891 |
| 172 | 1052604,7751 | 877309,0550 |
| 173 | 1052617,9692 | 877379,0853 |
| 174 | 1052636,7455 | 877431,8619 |
| 175 | 1052655,0143 | 877480,5787 |
| 176 | 1052679,3728 | 877525,7432 |
| 177 | 1052703,0860 | 877576,9959 |
| 178 | 1052703,7266 | 877582,9533 |
| 179 | 1052718,2793 | 877646,4532 |
| 180 | 1052720,6812 | 877654,3312 |
| 181 | 1052719,4626 | 877662,2518 |
| 182 | 1052717,1251 | 877671,6020 |
| 183 | 1052714,8954 | 877680,5206 |
| 184 | 1052707,2835 | 877699,2969 |
| 185 | 1052708,2983 | 877719,5956 |
| 186 | 1052723,0149 | 877733,2972 |
| 187 | 1052738,2390 | 877738,8793 |
| 188 | 1052763,1047 | 877740,4018 |
| 189 | 1052775,7915 | 877737,8644 |
| 190 | 1052786,4482 | 877732,2823 |
| 191 | 1052787,2396 | 877731,6159 |
| 192 | 1052796,0901 | 877724,1628 |
| 193 | 1052798,1200 | 877718,0732 |
| 194 | 1052798,8839 | 877715,6722 |
| 195 | 1052801,6722 | 877706,9089 |
| 196 | 1052801,9181 | 877705,6800 |
| 197 | 1052803,6084 | 877697,2282 |
| 198 | 1052807,7618 | 877676,4609 |
| 199 | 1052795,8446 | 877637,0676 |
| 200 | 1052793,9534 | 877630,8157 |
| 201 | 1052791,0395 | 877608,0879 |

| ID | X | Y |
|-----|--------------|-------------|
| 202 | 1052791,1715 | 877587,0536 |
| 203 | 1052791,1711 | 877544,0588 |
| 204 | 1052792,4938 | 877507,6787 |
| 205 | 1052789,8476 | 877467,3296 |
| 206 | 1052792,4931 | 877433,5953 |
| 207 | 1052798,3241 | 877420,5874 |
| 208 | 1052799,1255 | 877419,6357 |
| 209 | 1052809,9515 | 877407,0056 |
| 210 | 1052813,5601 | 877394,3752 |
| 211 | 1052814,3007 | 877388,6972 |
| 212 | 1052816,2667 | 877373,6255 |
| 213 | 1052817,0562 | 877348,3611 |
| 214 | 1052817,1687 | 877344,7562 |
| 215 | 1052820,5966 | 877289,1241 |
| 216 | 1052821,1700 | 877274,0550 |
| 217 | 1052820,7774 | 877272,5832 |
| 218 | 1052814,4623 | 877234,6923 |
| 219 | 1052814,4623 | 877219,3555 |
| 220 | 1052814,4623 | 877194,0951 |
| 221 | 1052814,4623 | 877176,0517 |
| 222 | 1052806,3428 | 877151,6933 |
| 223 | 1052806,3429 | 877136,3565 |
| 224 | 1052804,5385 | 877108,3895 |
| 225 | 1052810,8537 | 877086,7375 |
| 226 | 1052815,0851 | 877078,3671 |
| 227 | 1052821,3915 | 877065,8922 |
| 228 | 1052830,8545 | 877049,0230 |
| 229 | 1052845,3553 | 877020,6512 |
| 230 | 1052840,9634 | 876990,7699 |
| 231 | 1052838,2566 | 876969,8379 |
| 232 | 1052838,1519 | 876929,2010 |
| 233 | 1052837,9154 | 876837,4231 |
| 234 | 1052859,9349 | 876790,7417 |
| 235 | 1052910,1394 | 876738,7756 |
| 236 | 1052924,8566 | 876726,5112 |
| 237 | 1052947,1322 | 876707,9483 |
| 238 | 1052970,0327 | 876680,6440 |
| 239 | 1052978,8404 | 876652,4589 |
| 240 | 1052977,3661 | 876636,9793 |
| 241 | 1052977,0789 | 876633,9626 |
| 242 | 1052976,5522 | 876632,8341 |
| 243 | 1052973,8052 | 876626,9478 |
| 244 | 1052964,7479 | 876607,5392 |
| 245 | 1052939,0736 | 876577,3537 |
| 246 | 1052920,1281 | 876561,1149 |
| 247 | 1052905,2424 | 876549,6121 |
| 248 | 1052893,7398 | 876536,7564 |
| 249 | 1052887,6503 | 876525,9304 |
| 250 | 1052886,9737 | 876509,6915 |
| 251 | 1052889,6801 | 876496,8356 |
| 252 | 1052897,1229 | 876474,5070 |
| 253 | 1052905,2425 | 876461,6514 |
| 254 | 1052922,8346 | 876454,2084 |
| 255 | 1052977,6700 | 876428,2626 |
| 256 | 1052981,6617 | 876425,9279 |
| 257 | 1053009,4428 | 876405,5546 |
| 258 | 1053037,2238 | 876369,1742 |
| 259 | 1053040,4730 | 876363,4183 |
| 260 | 1053042,5969 | 876343,2423 |
| 261 | 1053043,9501 | 876323,6203 |
| 262 | 1053054,0993 | 876303,9983 |
| 263 | 1053062,2188 | 876297,9086 |
| 264 | 1053077,1045 | 876293,8490 |
| 265 | 1053094,6968 | 876293,1723 |
| 266 | 1053108,9057 | 876294,5255 |
| 267 | 1053112,0014 | 876295,8289 |
| 268 | 1053121,7616 | 876299,9388 |

| ID | X | Y |
|-----|--------------|-------------|
| 269 | 1053134,6174 | 876310,0879 |
| 270 | 1053148,8265 | 876320,2372 |
| 271 | 1053156,1626 | 876327,0842 |
| 272 | 1053158,9758 | 876329,7099 |
| 273 | 1053170,4784 | 876336,4762 |
| 274 | 1053177,9213 | 876339,1827 |
| 275 | 1053184,7885 | 876339,1827 |
| 276 | 1053185,3641 | 876339,1827 |
| 277 | 1053191,5014 | 876335,4058 |
| 278 | 1053194,1602 | 876333,7696 |
| 279 | 1053205,6627 | 876325,6502 |
| 280 | 1053226,6381 | 876313,4710 |
| 281 | 1053248,9666 | 876308,0580 |
| 282 | 1053257,7627 | 876312,1178 |
| 283 | 1053301,0665 | 876316,8541 |
| 284 | 1053308,5043 | 876318,5480 |
| 285 | 1053325,1250 | 876322,3333 |
| 286 | 1053333,5444 | 876321,5904 |
| 287 | 1053369,4054 | 876319,5606 |
| 288 | 1053398,5001 | 876325,6502 |
| 289 | 1053412,7092 | 876335,7995 |
| 290 | 1053415,5150 | 876337,8670 |
| 291 | 1053425,5651 | 876345,2722 |
| 292 | 1053436,3910 | 876350,0086 |
| 293 | 1053438,5143 | 876349,5091 |
| 294 | 1053446,6714 | 876347,6602 |
| 295 | 1053447,8935 | 876347,3021 |
| 296 | 1053456,0130 | 876341,8891 |
| 297 | 1053472,2520 | 876329,7099 |
| 298 | 1053479,6877 | 876324,9511 |
| 299 | 1053488,6161 | 876319,2369 |
| 300 | 1053502,2136 | 876313,3653 |
| 301 | 1053510,9674 | 876306,5145 |
| 302 | 1053523,9079 | 876291,6710 |
| 303 | 1053534,1842 | 876279,8725 |
| 304 | 1053534,8539 | 876278,6220 |
| 305 | 1053545,6021 | 876258,5589 |
| 306 | 1053550,1693 | 876249,0439 |
| 307 | 1053562,3486 | 876241,8125 |
| 308 | 1053582,9009 | 876237,2452 |
| 309 | 1053586,3731 | 876237,0085 |
| 310 | 1053599,6473 | 876236,1035 |
| 311 | 1053615,2519 | 876228,4915 |
| 312 | 1053621,3352 | 876222,5565 |
| 313 | 1053630,8566 | 876213,2675 |
| 314 | 1053645,6999 | 876201,4688 |
| 315 | 1053647,6170 | 876199,1682 |
| 316 | 1053657,1179 | 876187,7673 |
| 317 | 1053669,2971 | 876179,0134 |
| 318 | 1053681,8569 | 876174,4462 |
| 319 | 1053695,1780 | 876175,5880 |
| 320 | 1053708,8795 | 876177,4911 |
| 321 | 1053715,5156 | 876180,0599 |
| 322 | 1053720,6781 | 876182,0582 |
| 323 | 1053731,6204 | 876181,1709 |
| 324 | 1053734,0554 | 876180,9736 |
| 325 | 1053748,8425 | 876179,7746 |
| 326 | 1053758,0002 | 876168,5991 |
| 327 | 1053775,6742 | 876157,5013 |
| 328 | 1053797,6343 | 876133,6886 |
| 329 | 1053825,4155 | 876112,5217 |
| 330 | 1053836,7782 | 876109,5997 |
| 331 | 1053859,3645 | 876107,8624 |
| 332 | 1053874,5886 | 876109,8923 |
| 333 | 1053889,3051 | 876110,9071 |
| 334 | 1053906,0515 | 876110,9072 |
| 335 | 1053916,7083 | 876105,8325 |
| 336 | 1053917,9939 | 876103,9468 |
| 337 | 1053922,3772 | 876097,5183 |
| 338 | 1053924,3203 | 876094,6683 |
| 339 | 1053924,4007 | 876094,4371 |
| 340 | 1053928,3801 | 876082,9966 |

| ID | X | Y |
|-----|--------------|-------------|
| 341 | 1053931,4249 | 876070,3099 |
| 342 | 1053931,9323 | 876055,5933 |
| 343 | 1053947,1563 | 876032,7573 |
| 344 | 1053968,9773 | 876010,4288 |
| 345 | 1053985,2162 | 875996,7272 |
| 346 | 1054005,0075 | 875988,6077 |
| 347 | 1054005,7765 | 875988,1712 |
| 348 | 1054023,7838 | 875977,9508 |
| 349 | 1054049,6646 | 875970,8463 |
| 350 | 1054076,0528 | 875966,2791 |
| 351 | 1054097,3665 | 875958,1596 |
| 352 | 1054121,2174 | 875939,8908 |
| 353 | 1054134,9190 | 875926,6967 |
| 354 | 1054149,1408 | 875911,0038 |
| 355 | 1054149,6356 | 875910,4578 |
| 356 | 1054158,7700 | 875898,2786 |
| 357 | 1054171,6354 | 875881,2525 |
| 358 | 1054181,8391 | 875867,7489 |
| 359 | 1054186,5696 | 875863,2811 |
| 360 | 1054214,3507 | 875837,4840 |
| 361 | 1054218,8561 | 875832,1833 |
| 362 | 1054232,8600 | 875823,6810 |
| 363 | 1054239,4571 | 875814,5466 |
| 364 | 1054252,6513 | 875797,8001 |
| 365 | 1054254,3731 | 875795,5306 |
| 366 | 1054263,8155 | 875783,0836 |
| 367 | 1054271,4276 | 875770,9045 |
| 368 | 1054279,0395 | 875749,5909 |
| 369 | 1054279,9088 | 875734,3779 |
| 370 | 1054275,0108 | 875719,2383 |
| 371 | 1054274,9798 | 875719,1427 |
| 372 | 1054270,5199 | 875709,1938 |
| 373 | 1054268,3827 | 875704,4263 |
| 374 | 1054259,2484 | 875693,2620 |
| 375 | 1054237,9347 | 875685,6500 |
| 376 | 1054218,6510 | 875672,4559 |
| 377 | 1054205,9644 | 875657,7393 |
| 378 | 1054202,4120 | 875650,6348 |
| 379 | 1054200,3822 | 875643,5303 |
| 380 | 1054202,4120 | 875630,8436 |
| 381 | 1054210,5316 | 875611,0524 |
| 382 | 1054225,2611 | 875593,7234 |
| 383 | 1054227,7855 | 875590,7538 |
| 384 | 1054228,0067 | 875587,5459 |
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| 3126 | 1046841,4883 | 875113,1815 |
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| 3153 | 1047156,3663 | 875161,8541 |
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| 3168 | 1047288,1164 | 875158,9102 |
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| 3170 | 1047298,9914 | 875157,2223 |
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| 3180 | 1047505,4919 | 875157,6498 |
| 3181 | 1047542,4932 | 875184,3356 |
| 3182 | 1047567,1829 | 875225,4595 |
| 3183 | 1047595,9344 | 875256,2708 |
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| 3185 | 1047632,9377 | 875326,2066 |
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| 3191 | 1047775,7533 | 875383,1999 |
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| 3195 | 1047848,1938 | 875442,9465 |
| 3196 | 1047864,7565 | 875448,0709 |
| 3197 | 1047876,1943 | 875454,4454 |
| 3198 | 1047895,0070 | 875455,4445 |
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