

RFP for 2017 Aerial Mapping Project
Job No. 48-16-IT
October 24, 2016
Questions and Answers

Following is the questions received by the October 24th deadline for this project:

1. Please provide a shapefile of the project area. [*This was provided to all requestors.*]
2. Are tides a concern for acquisition? [*There are no tidal areas within the project limits. Pool elevations for Lake Washington and Lake Sammamish vary somewhat throughout the year, but this variation may be ignored for this project.*]
3. Please provide a shapefile for spot imagery locations required on this project. [*This was provided to all requestors for the Bellevue portion of the project area, including the Bellevue Central Business District. There are a small number of bridges and overpasses, primarily freeway interchanges, in Kirkland and Sammamish that will also need this treatment.*]
4. Please provide the following from the 2015 King County Regional Aerial Mapping Project: DEM, survey control locations, survey control report, and AT report. [*Unfortunately these items have not been distributed to participating agencies, and it is unclear when/if they will be.*]
5. Is the 2016 Puget Sound Lidar Consortium lidar data available? [*<http://pugetsoundlidar.ess.washington.edu/lidardata/>; requires a log-in.*]
6. Please provide access to GIS data for buildings, other impervious, DEM, etc. for the project area. [*Most of this can be downloaded from http://www.bellevuewa.gov/GIS_map_data_info.htm and <http://forms.cityofkirkland.net/gisdata/AllData/> ; the City of Sammamish does not distribute its data via a web site. Its impervious data layer is vintage 2012 and has the following feature classes/counts: bridge/overpass – 59, rooflines – 24,500, decks – 9,113, driveways – 18,163, other – 6,702, parking lots – 411, patio/concrete pads – 14,875, roadway/edge of pavement polygons – 33, walkways/sidewalks – 26,299. The only significant attribute is high elevation point on rooflines.*]
7. How many buildings exist in the project area? [*Kirkland 56,200; Bellevue 61,800; Sammamish 24,500*]
8. Are agencies planning to repaint targets from the 2015 project? [*Bellevue will; Kirkland and Sammamish will not. Bellevue publishes a map of its network at <http://www.bellevuewa.gov/surveycontrol/>; data can be downloaded at <http://www.bellevuewa.gov/surveycontrol/SurveyControlList.aspx?bnds=47.414886,-123.613029,48.240949,-121.573692>.*]
9. Is 2015 project imagery available? [*Bellevue distributes its 2015 orthoimagery via the web site in 6. (above). Raw unrectified imagery is not available through any of the three cities.*]

10. Are decks/concrete pads/sidewalks to be mapped/updated [Yes.]
11. What is accuracy/contour interval for Sammamish topo? [*It is 2-foot contour interval produced during the 2012 King County project.*]
12. What Sammamish data is available? [*None via the web. We will make every effort to get sample data from that city if it is important to your proposal.*]
13. Explanation of sun angle specification and start dates? [*We prefer NOT to relax the minimum 40 degree sun angle requirement because of shadow issues, but realize that this pushes a realistic start date to March 20 or later during a time when weather is unsettled and trees may be beginning to leaf out. Respondents should take these variables into account and propose their best technical solution and backup plans.*]
14. Is the project area for impervious mapping different from the overall project area? [*They are the same nominally, although there are many peripheral areas in each city where no impervious exists.*]
15. What is the vintage, extent, content, and quality of impervious data within the project area? [*Vintage is mid-1990s through 2015. Extent: 14. (above). Content: varies by city, but cities have agreed to have a common spec for this project that will involve minimal attribution. Quality: mostly good; the cities are aware that there is a vast difference between doing updates and doing corrections to legacy features.*]
16. Are areas of new development (since 2016 lidar collection) available? [*Not easily. Kirkland permit records suggest approximately 500 sites per year with significant changes (that city is 17 square miles); Bellevue likely has a comparable rate, and Sammamish probably somewhat higher.*]
17. Is survey control available for the Sammamish portion of the project area? [*Not from the city. King County, WADNR, WADOT, and others will have some control data available for that area.*]
18. In what format is the 2016 lidar data available? [*Point data: LAS (all returns), Comma-delimited ASCII (all returns *asc, Ground returns *gnd); Raster data: 3' ESRI Floating Point grid (bare earth and highest hit models); 1.5' GeoTiff (intensity image)*]
19. What other elevation data exists? [*Legacy elevation data compiled photogrammetrically in a variety of environments ranging in vintage from mid-1990s to 2015.*]
20. What is the required format for DTM delivery? [*Prefer mass points and breaklines; respondents are free to propose options.*]
21. Availability of existing impervious data, and estimated percentage of change for this project? [*Please see 6.-10.-12.-14.-15.-16. (above)*]

Issued by:

Greg Piland, Purchasing Agent
425-587-3126