

PRELIMINARY HYDROLOGY REPORT

GUIDANCE DOCUMENT – ENGINEERING DEPARTMENT

1. INTRODUCTION

- Please have a discussion of what the project entails and what the development is planned. Include the address and major streets of the development.
- Please include the project size and the lot size of the development.
- Include if the site is a “Priority Project” and the site will require a WQMP during the plan check process.

2. SITE DISCUSSION

- Include what the major masterplan drainage lines and watershed information that is related to this project.
- Include any types of studies performed and also properties of the site (slope, roughness, disturbance, classifications, etc)

3. RAINFALL DATA

- Discuss and show where the data used in the hydro calcs/reports.

4. ONSITE RUNOFF

- Include the pre- and post- Q for the development. Include a table that summarizes the improvements and also the impacts of the development. Include 2/10/100 year data results. Include separate subwatersheds with pre and post development flow data.
- Include a site plan within the report, summarize the flow paths of the site and make sure the nodes and the data submitted matches the site plans and drainage paths.

5. OFFSITE RUNOFF

- Include a map and discussion of the water flowing with Qs around the proposed development. Include the closest masterplan drainage line and watershed.

6. STORMWATER TREATMENT

- Include what Post-construction BMPs that will be implemented at the development. Include a simple sizing calculation that there is adequate room to implement the improvements.
- Discuss how the project is mitigating the effects of the development.

7. CONCLUSION

- Summarize the project and also state assumptions of the project moving forward into plan check.

8. APPENDIX

- RATIONAL METHOD DATA – Pre and post storm development.
- HAND CALCULATIONS – Rough BMP calculations
- SITE PLAN WITH DRAINAGE ARROWS – Site plan with drainage arrows for the pre- and post conditions of the site.
- SITE PLAN SUB WATERSHEDS – show the sub watersheds of the site and how the water flows around the site and into the Citys MS4.
- STORMDRAIN MASTERPLAN – Include reference for the City of Victorville Masterplan Document
- CITY WATERSHED – show the city watershed with the site included and how the water travels around the site. Include how the water travels with pre and post development.