

はるどお
春遠ダム 建設事業の検証に係る検討

報告書 補足資料

平成 23 年 11 月

高 知 県

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1. 貝ノ川流域および河川の概要

① 流域の概要

貝ノ川は、高知県幡多郡大月町中央部の春遠・叶岬山麓に発し、途中で家ノ谷川、シウリ川、荒神谷川など8つの支川が合流し、土佐清水市貝ノ川郷地先において太平洋に注ぐ、流域面積22.7km²、河川延長16.3kmの二級河川である。

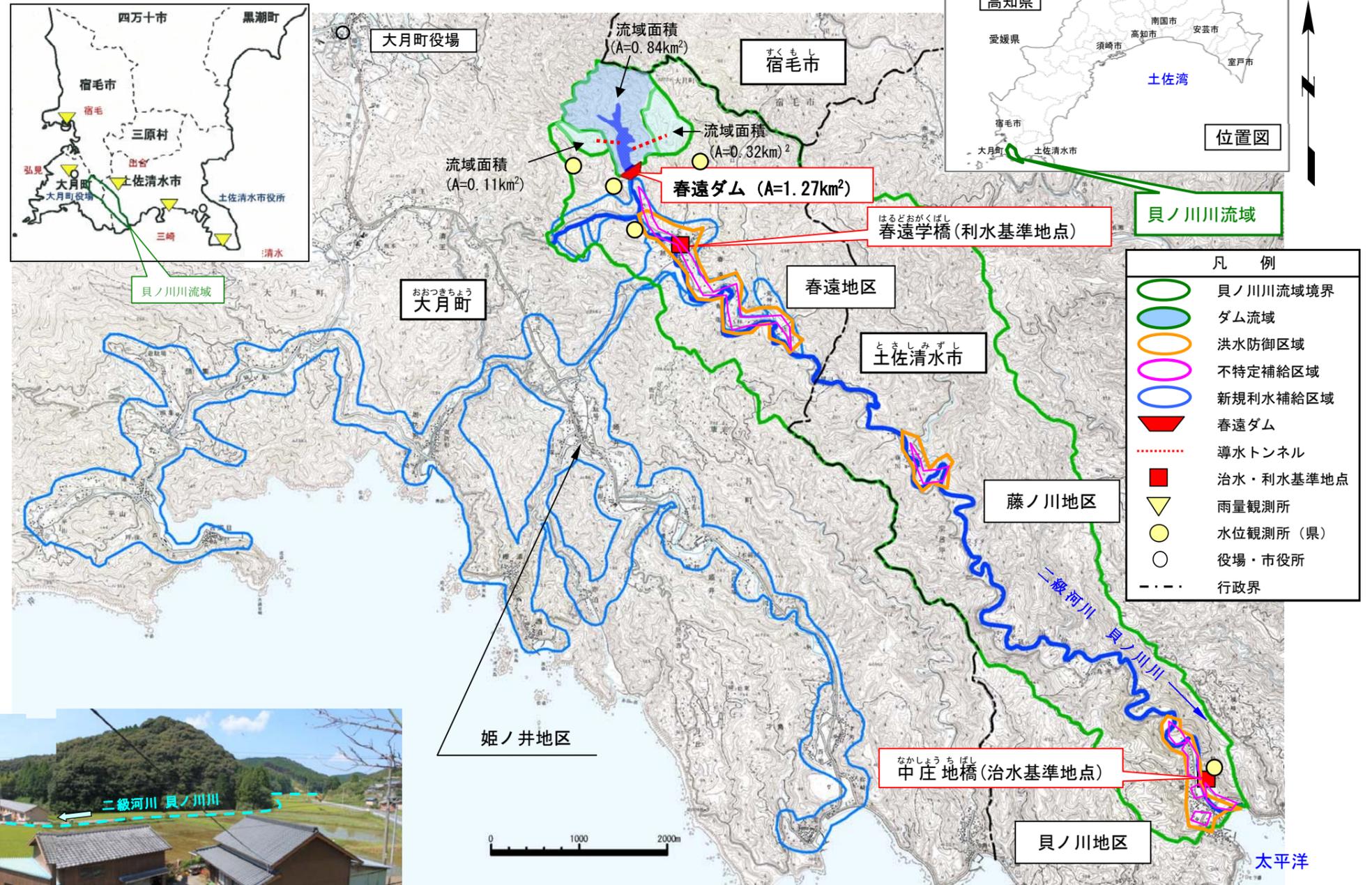


写真-1.1 上流部春遠地区の状況



写真-1.2 中流部藤ノ川地区の状況



写真-1.3 下流部貝ノ川地区の状況

② 過去の主な洪水

近年においては、平成13年9月(高知県西南部豪雨災害)に見舞われ、貝ノ川川上流域では、24時間雨量577mm、1時間最大雨量120mmの記録的な豪雨により、浸水64戸(床上浸水12戸、床下浸水52戸)及び家屋の全半壊48戸の被害が発生するなど、市民生活、公共施設、市民財産等に甚大な被害を受けている。

表-1.1 過去の主な洪水被害

| 年 | 洪水要因 | 日最大雨量*1 (mm/日) | 土木災害額 (千円) | 一般災害額 (千円) | 合計 (千円) | 床上 浸水 | 床下 浸水 | 全半壊 家屋 |
|-------|----------------------------|-------------------|---------------|---------------|------------|----------|----------|-----------|
| 昭和54年 | 8月台風12号、9月台風16号および10月台風20号 | 254 | 65,950 | 4,118 | 70,068 | 1戸 | 5戸 | 0戸 |
| 昭和55年 | 8月豪雨 | 356 | 1,567 | 2,522 | 4,089 | 0戸 | 5戸 | 0戸 |
| 平成13年 | 平成13年9月高知県西南部豪雨災害 | 517 | 1,862,381 | 178,746 | 2,041,127 | 12戸 | 52戸 | 48戸 |

注) 平成13年9月高知県西南部豪雨災害(家屋被害48戸(全壊流出家屋4戸、半壊家屋44戸))

*1: 日最大雨量は、当該流域近傍の弘見および出合観測所の雨量データから流域の日雨量を算出した値

出典根拠: 水害統計



写真-1.4 高知県西南部豪雨(平成13年9月)災害の状況

③ 過去の主な渇水

大月町の水道は、町内を流れる小河川の表流水および伏流水に依存する小規模な簡易水道施設が多く、渇水時には需要に見合う取水が不可能となり、毎年のように断水が発生している。特に、平成8年の渇水では、1日18時間の断水が14日間発生し、町民の生活に深刻な影響が出たため、給水車にて対処している。

表-1.2 水道の取水制限状況

| 年月 | 制限日数 | 日断水時間 |
|---------|------|-------|
| 平成元年8月 | 14日間 | 7時間 |
| 平成2年8月 | 10日間 | 6時間 |
| 平成3年8月 | 9日間 | 8時間 |
| 平成6年7月 | 9日間 | 9時間 |
| 平成7年9月 | 14日間 | 18時間 |
| 平成8年1月 | 14日間 | 18時間 |
| 平成19年4月 | 19日間 | 0時間 |
| 平成22年3月 | 7日間 | 0時間 |
| 平成23年7月 | 6日間 | 0時間 |



写真-1.5 断水状況(H7.9.20 姫ノ井地区)

④ 治水事業の沿革

平成13年9月高知県西南部豪雨災害を受け、下流域の貝ノ川地区では災害関連事業が実施され、ダム計画を前提とした河道改修(計画流量300m³/s)が完了している。

⑤ 河川整備基本方針および整備計画

⑤-1 河川整備基本方針(策定中)

【洪水、高潮等による災害の防止又は軽減に関する事項】

沿川地域を洪水から防御するため、上流域に洪水調節施設を建設し、洪水の軽減を図るとともに、河川環境の保全に配慮しながら堤防の新設、河道掘削等により河積を拡大し、計画規模の降雨による洪水の安全な流下を図る。

【河川の整備の基本となるべき事項】

(1) 基本高水並びにその河道及び洪水調節施設への配分に関する事項

基本高水は、既往洪水について検討した結果、そのピーク流量を基準地点である中庄地橋において325m³/sとし、これを上流の洪水調節施設にて調節し、残り300m³/sを河道により流下させる。

表-1.3 基本高水のピーク流量等一覧

(単位: m³/s)

| 河川名 | 基準地点名 | 基本高水のピーク流量 | 河道への配分流量 | 洪水調節施設による調節流量 |
|------|---------------------|------------|----------|---------------|
| 貝ノ川川 | 中庄地橋 (河口から0.8km) | 325 | 300 | 25 |



図-1.2 貝ノ川計画高水流量配分

(2) 主要な地点における流水の正常な機能を維持するため必要な流量に関する事項

春遠学橋地点における流水の正常な機能を維持するための流量については、利水の現況、動植物の保護等を考慮して、4月から11月は概ね0.08m³/s、12月から3月は概ね0.06m³/sとする。

⑤-2 河川整備計画(策定中)

【河川整備の目標に関する事項】

概ね30年に1回発生する規模の降雨による洪水に対して、流域の社会的、経済的な被害の軽減を図ることを目的とし、河川改修やダム建設を実施する。

いえのたがわに春遠ダムを建設して治水容量を460,000m³確保することにより、なかしょうちばし中庄地橋地点におけるピーク流量を325m³/sから300m³/sに低減する。

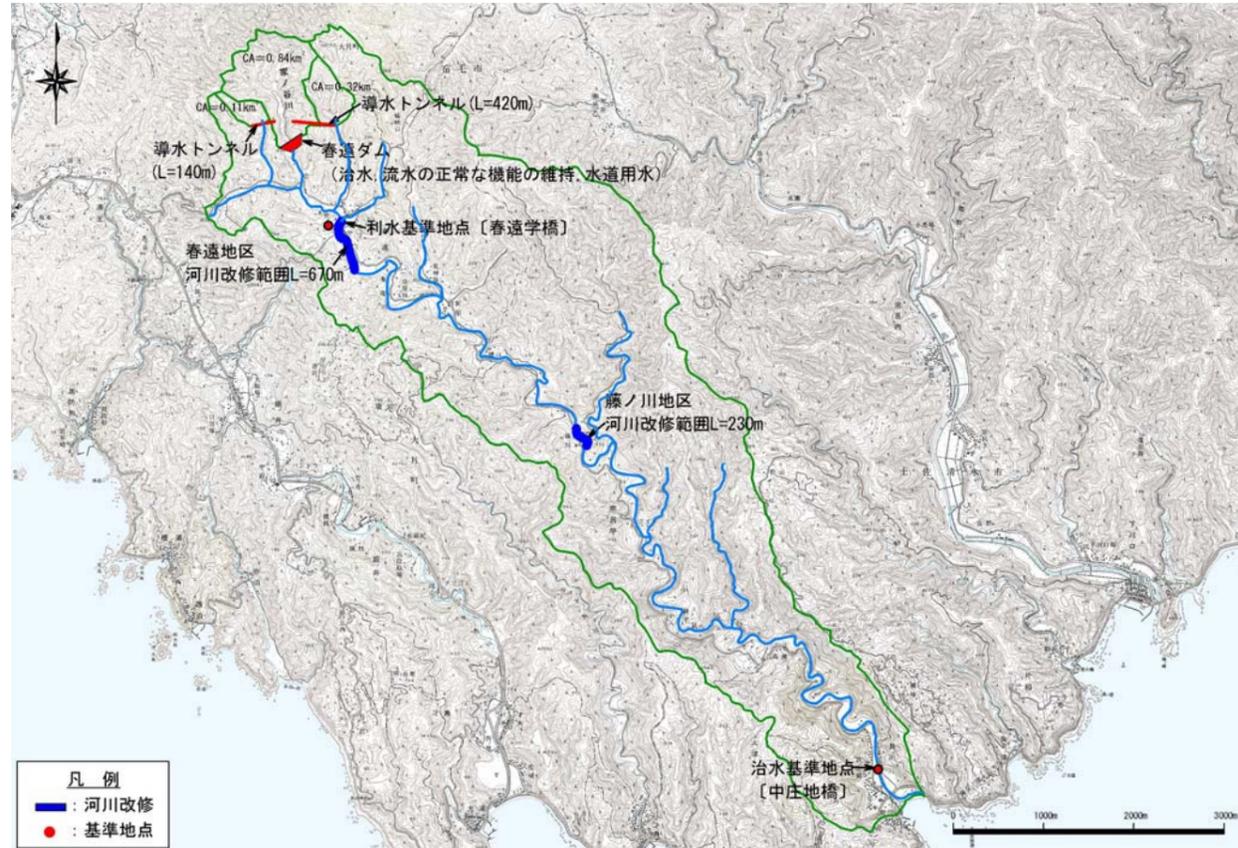


図-1.3 河川整備計画整備区間

【期 間】

対象期間は概ね20年とする。

表-1.4 河川整備計画対象区間

| 水系名 | 河川名 | 上流端 | 下流端 | 延長(km) |
|------|------------|---|-------------|--------|
| 貝ノ川川 | 貝ノ川川 | 左岸：幡多郡大月町大字春遠字マトバ 1,192番地先 右岸：同町大字春遠上ヒエジリ 1,031番地先 | 海 | 16.3 |
| | 1支 家ノ谷川 | 左岸：幡多郡大月町春遠字ツエタテ 1,271番地先 右岸：同町春遠字カマクラ山 1,566番2地先 | 貝ノ川川 合流点 | 1.22 |

【洪水による災害の発生防止又は軽減に関する目標】

貝ノ川川における整備目標は、流域の人口、資産状況、氾濫面積等の重要度から30年に1回発生する規模の降雨による洪水に対して、洪水を安全に流下できることを目標とする。

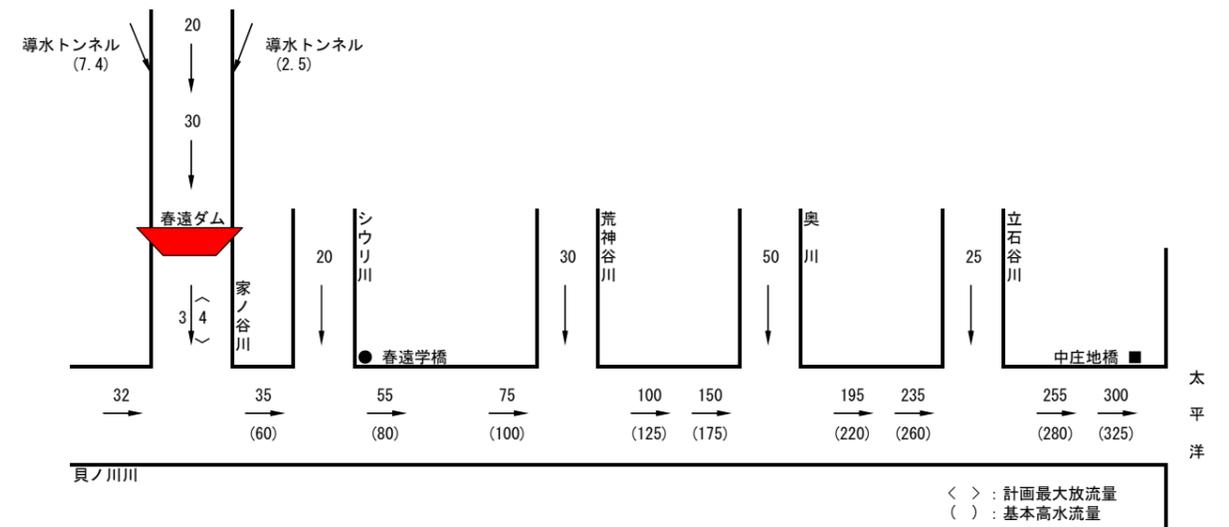


図-1.3 貝ノ川川流量配分図

【河川水の適正な利用及び流水の正常な機能の維持に関する事項】

貝ノ川川水系家ノ谷川に建設する春遠ダムにより水資源の開発を図り、渇水時における大月町の水道用水の不足に対処する。併せて、流水の正常な機能を維持するための必要な流量も確保することを目標とする。

表-1.5 流水の正常な機能を維持するための流量(春遠学橋地点)

| 期 間 | 流量(m ³ /s) | |
|--------|-----------------------|-------|
| かんがい期 | 4月1日～9月21日 | 0.061 |
| しろかき期 | 4月11日～4月30日 | 0.077 |
| 非かんがい期 | 9月22日～9月30日 | 0.061 |
| | 10月1日～11月30日 | 0.076 |
| | 12月1日～3月31日 | 0.061 |

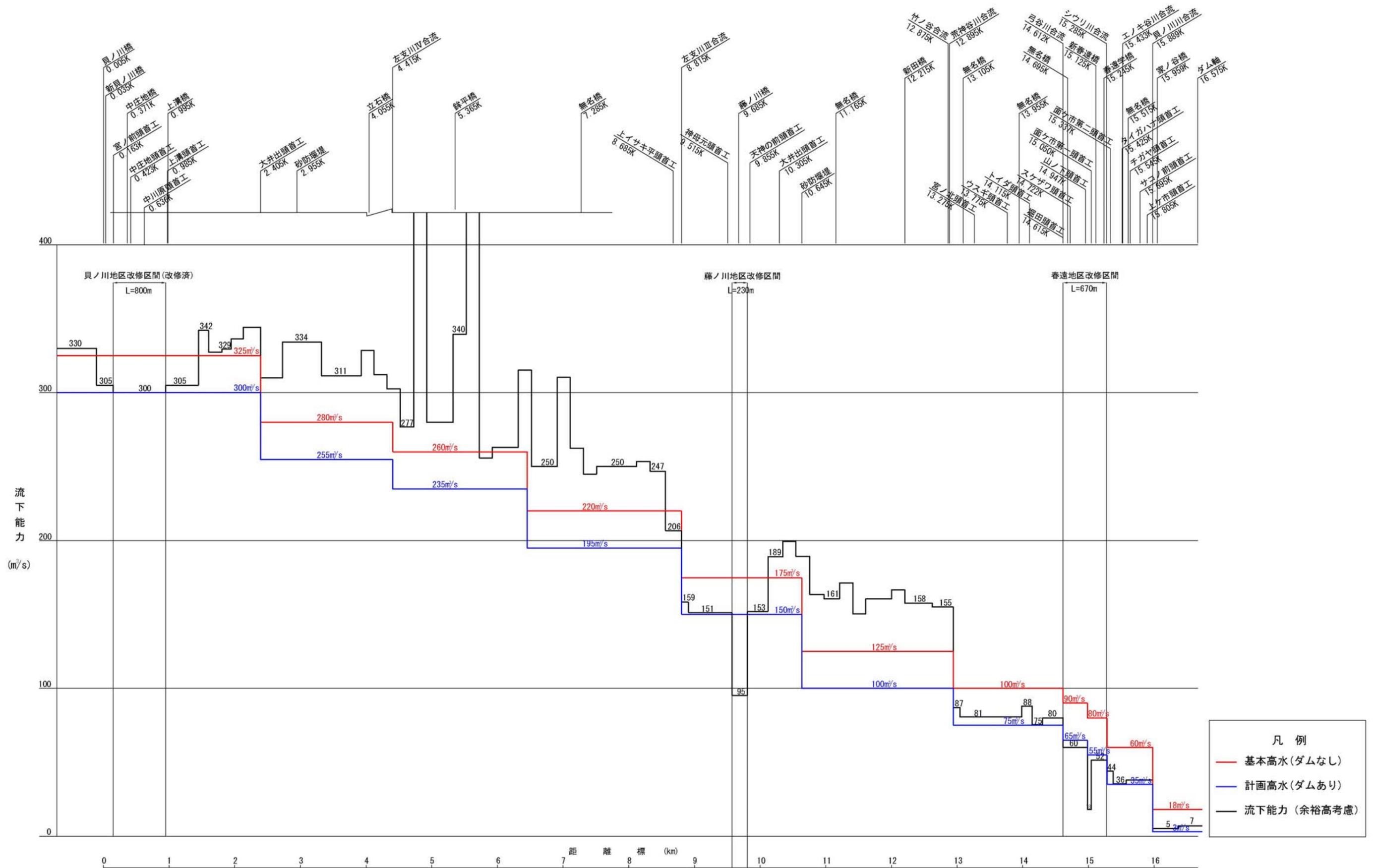


図-1.4 貝ノ川川流下能力図

2. 春遠ダムの事業点検

① 事業費

総事業費の点検は、平成20年度再評価時の総事業費66.0億円について、平成23年度時点の残事業数量と平成23年度単価を用いて行った。その結果、総事業費66.0億円の範囲内で完成する見込みであることを確認した。

なお、以降の検討では残事業費46.0億円(平成23年7月時点)を使用した。

表-2.1 春遠ダム事業費および執行状況

| 項 | 細目 | 金額(千円) | | | | |
|-----|----------|-----------|-----------|-----------|-------------|----------|
| | | 全体事業費 | 平成23年度まで | 残事業費 | 残事業費(H23価格) | 増減 |
| 建設費 | | 6,293,000 | 1,755,360 | 4,537,640 | 4,396,973 | -140,667 |
| | 工事費 | 3,959,000 | 120,573 | 3,838,427 | 3,719,436 | -118,991 |
| | 測量および試験費 | 1,254,000 | 953,919 | 300,081 | 290,778 | -9,303 |
| | 用地および補償費 | 1,079,000 | 680,868 | 398,132 | 385,790 | -12,342 |
| | 機械器具費 | 1,000 | 0 | 1,000 | 969 | -31 |
| | 営繕費 | 0 | 0 | 0 | 0 | 0 |
| 事務費 | | 307,000 | 99,670 | 207,330 | 200,903 | -6,427 |
| | 合計 | 6,600,000 | 1,855,030 | 4,744,970 | 4,597,876 | -147,094 |

② 工期

工期を点検した結果、現計画の工期と大きな変更はなく、ダム本体工事発注後約3年間で完了する見込みである。

表-2.2 春遠ダム工事工程

| 工種 | 種別 | 平成22年度 | 平成23年度 | 平成24年度 | 平成25年度 | 平成26年度 | 平成27年度 | 平成28年度 | 平成29年度 | 平成30年度 | 平成31年度 | 平成32年度 |
|------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 堤体工事 | 仮排水路・仮締切 | | | | | | | | | | | |
| | 基礎掘削 | | | | | | | | | | | |
| | コンソリデーショングラウチング | | | | | | | | | | | |
| | カーテングラウチング | | | | | | | | | | | |
| | コンクリート | | | | | | | | | | | |
| | 放流設備 | | | | | | | | | | | |
| | 取水設備 | | | | | | | | | | | |
| 仮設備 | 導水施設・分派 | | | | | | | | | | | |
| | 工事用道路 | | | | | | | | | | | |
| | 骨材プラント | | | | | | | | | | | |
| 補償 | コンクリートプラント | | | | | | | | | | | |
| | 町道付替 | | | | | | | | | | | |
| その他 | 用地補償 | | | | | | | | | | | |
| | 管理設備 | | | | | | | | | | | |
| | 試験湛水 | | | | | | | | | | | |

③ 堆砂計画

春遠ダムの計画堆砂量は、計画比堆砂量260m³/km²/年、計画堆砂量40,000m³としている。

点検では、新たに平成15年度から平成22年度までの近傍ダムにおける堆砂実績を追加し、点検を行った結果、現計画における計画堆砂量は妥当であると判断される。

④ 計画雨量

春遠ダムの計画雨量は、昭和47年から平成17年の時間雨量をもとに確率評価を行い、414.8mm/24hr(治水基準点中庄地橋における1/30年確率雨量)としている。

点検では、新たに平成18年から平成22年までの雨量データを追加し確率雨量の検証を行った。結果、1/30年確率雨量は403.8mm/24hrとなり、現計画と同等となるため、現計画の計画雨量414.8mm/24hrは妥当であると判断される。

表-2.3 確率雨量比較

| | 1/30年確率雨量 | |
|----------------|--------------|-----------|
| | 24時間雨量 | 1時間雨量 |
| 現計画(S47~H17) | 414.8mm/24hr | 96.0mm/hr |
| 今回の点検(S47~H22) | 403.8mm/24hr | 98.5mm/hr |

⑤ 新規利水

【水道計画】

大月町の水道事業は、11の簡易水道事業と1の飲料水供給施設の計12水道事業が各集落単位で設置されているが、渇水時期においては水量が減少し、断水や取水制限が頻繁に発生している。

各地区の簡易水道施設は、概ね30年が経過し、施設の老朽化が進んでいるため、大月町総合振興計画では、平成32年までに施設の集約化を図るとともに、安定的な水源として春遠ダムにより660m³/日を確保する計画としている。

【利水参画者への確認と点検】

水道事業者である大月町に確認を行った結果、ダム事業への参画継続の意思及び開発量に変更が無いことを確認した。また、ダムによる利水開発量660m³/日について必要量の算出が妥当に行われていることを確認した。

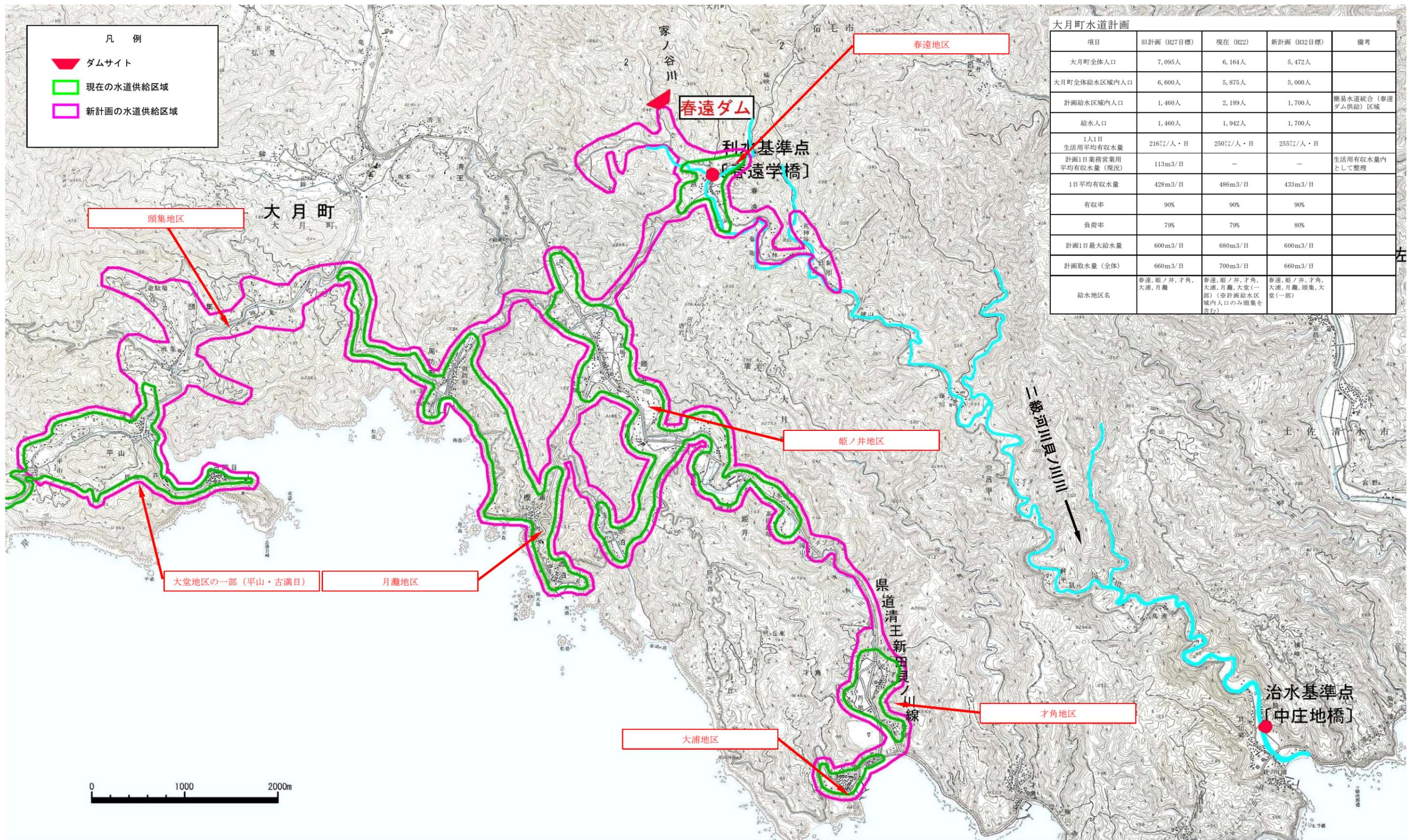
表-2.4 需要予測

| 項目 | 検証結果 |
|----------------------|-----------------------|
| 大月町全体人口 | 5,472人 |
| 大月町全体給水区域内人口 | 5,000人 |
| 計画給水区域内給水人口(簡易水道統合等) | 1,700人 |
| 有収水量(生活用水) | 433 m ³ /日 |
| 有収率(%) | 90.0% |
| 負荷率(%) | 80.0% |
| 計画1日最大給水量 | 600 m ³ /日 |
| 計画1日最大取水量 | 660 m ³ /日 |

⑥ 利水容量

現計画の利水計画は、昭和55年~平成11年までの20年を対象に利水容量270,000m³を設定している。

点検では、平成12年から平成21年までのデータを追加し利水容量の検証した結果、現計画の利水容量270,000m³に変更がないことを確認した。



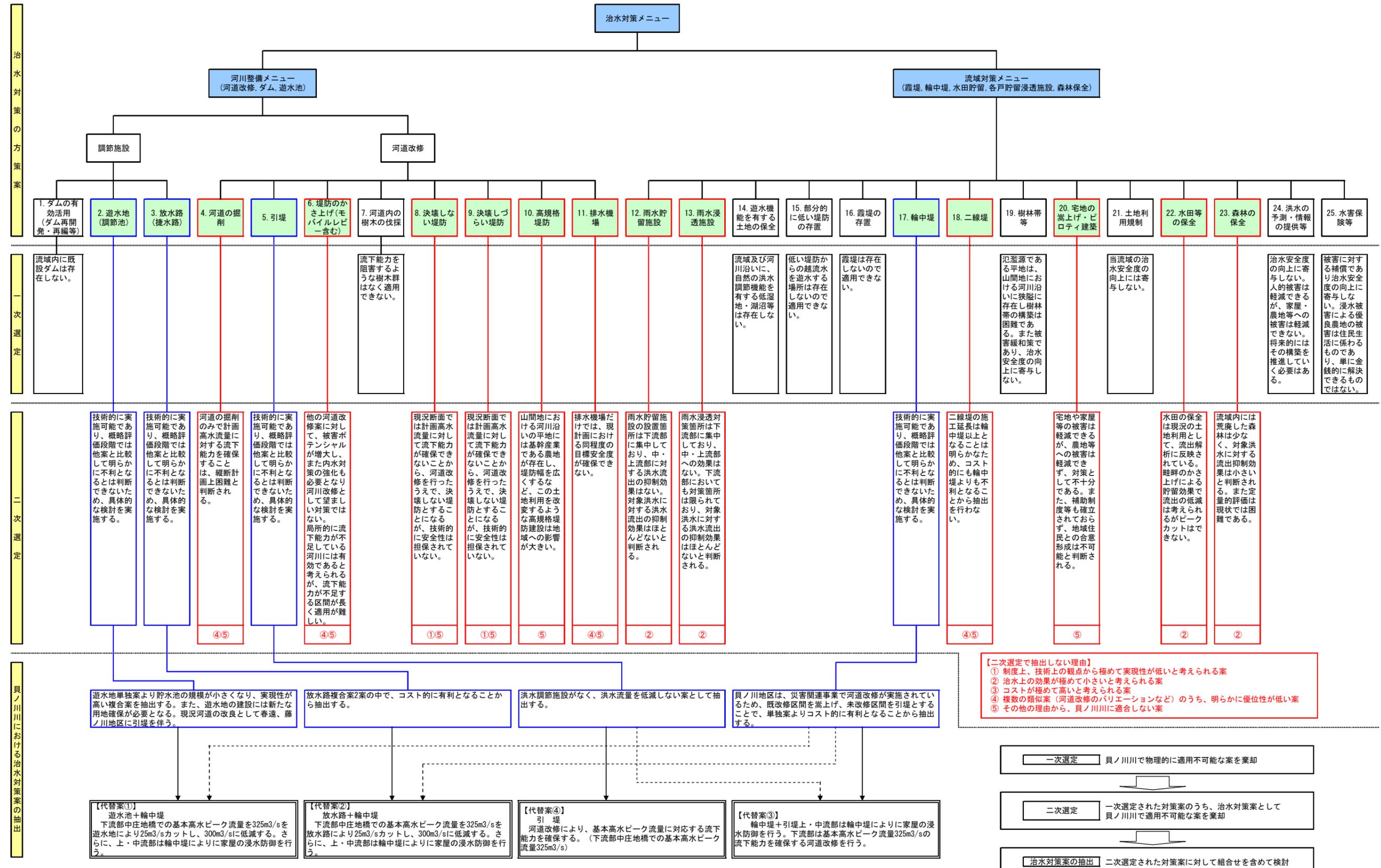
| 項目 | 旧計画 (H27目標) | 現在 (H22) | 新計画 (H32目標) | 備考 |
|----------------------|----------------------|---|----------------------------|--------------------|
| 大月町全体人口 | 7,095人 | 6,164人 | 5,472人 | |
| 大月町全体給水区域内人口 | 6,600人 | 5,875人 | 5,000人 | |
| 計画給水区域内人口 | 1,460人 | 2,189人 | 1,700人 | 簡易水道統合 (春遠ダム供給) 区域 |
| 給水人口 | 1,460人 | 1,942人 | 1,700人 | |
| 1人1日生活用平均有収水量 | 216ℓ/人・日 | 250ℓ/人・日 | 255ℓ/人・日 | |
| 計画1日業務営業用平均有収水量 (現況) | 113m ³ /日 | — | — | 生活用有収水量内として整理 |
| 1日平均有収水量 | 428m ³ /日 | 486m ³ /日 | 433m ³ /日 | |
| 有収率 | 90% | 90% | 90% | |
| 負荷率 | 79% | 79% | 80% | |
| 計画1日最大給水量 | 600m ³ /日 | 680m ³ /日 | 600m ³ /日 | |
| 計画取水量 (全体) | 660m ³ /日 | 700m ³ /日 | 660m ³ /日 | |
| 給水地区名 | 春遠、姫ノ井、才角、大浦、月灘 | 春遠、姫ノ井、才角、大浦、月灘、大堂 (一部) (※計画給水区域内人口のみ頭集を含む) | 春遠、姫ノ井、才角、大浦、月灘、頭集、大堂 (一部) | |

図-2.1 大月町水道事業計画概略平面図

3. 目的別対策案の立案の考え方とそれぞれの対策案の概要

① 治水対策案

①-1 治水対策案の抽出

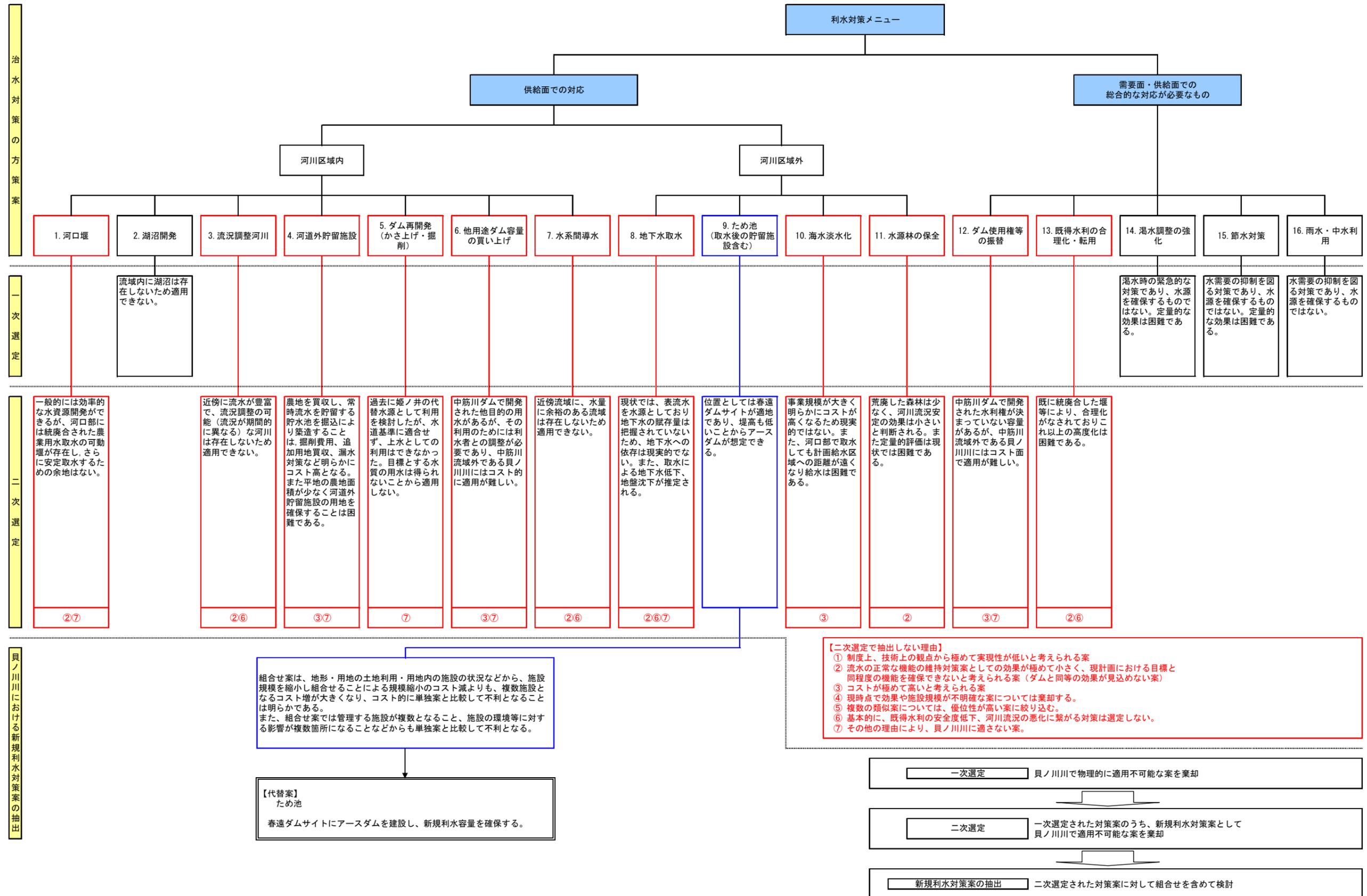


①-2 抽出した代替案の概要

| 対策案 | 春遠ダム+引堤 | 遊水地(貝ノ川)+輪中堤 | 放水路(貝ノ川)+輪中堤 | 輪中堤(春遠・藤ノ川地区)+引堤 | 引堤 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|--|--|--|---|------------------------|----|------------|----------------------|----|-----|----------------------------|-----|--|------------------------|----|-------|---------------------|----|-----|----|-----|-------|-------|---|--|---------|----|-----|---------------------|----|-------|-------|----|--|---------|----|------|----|----|-----------|----|----|---|--|-----|---|----|----|---------|-----|-----------------------|-----|-----|----|-----|-----|---------------------|----|------|-----------------------|-----|-----|-------------|----|------|-------------------------|-----|-----------|----|----|---|--|-------|----|----|---------|-----|--------|-----|------|----|-----|--------|--------|----|------|---------|-----|--------------|---------------------|----|------|----|----|---|--|-------|---|----|----|---------|-------|--------|-------|-------------|----------------------|----|-----------|--|-----|---|--|-------|----|----|---------|-----|--------|-----|------|----|-----|--------|--------|----|------|---------|-----|--------------|---------------------|----|------|----|----|---|--|-------|---|----|----|---------|-----|--------|-----|------|----|-----|--------|--------|----|------|---------|-----|--------------|---------------------|----|------|----|----|---|--|-------|----|----|---------|----|------------------------|---|------------|----------------------|----|-----|----------------------------|-----|--|------------------------|----|-------|---------------------|----|-----|----|-----|-------|-------|----|--|---------|----|-----|---------------------|-----|-------|-------|-----|--|---------|----|--------------|----|----|------|----|----|-----------|----|----|---|--|-------|--|----|----|---------|----|-------------------------|----|------------|----------------------|-----|-----|----------------------------|-----|--|--------------------------|-----|-------|----------------------|-----|-----|----|-------|-------|--------|----|--|----------|----|-------|--------|-----|--|----------|-----|--------------|----|----|------|----|-----|-----------|----|-----|---|--|-------|
| 概要 | 春遠ダムにより、計画高水流量 30m ³ /s のうち 27m ³ /s の洪水調節を行い、下流部中庄地橋での基本高水ピーク流量を 325m ³ /s から 300m ³ /s に低減、下流部の河道改修により流下能力を確保する。 | 下流部中庄地橋での基本高水ピーク流量を 325m ³ /s を遊水地により 25m ³ /s カットし、300m ³ /s に低減する。さらに、上・中流部は輪中堤により家屋の浸水防御を行う。 | 下流部中庄地橋での基本高水ピーク流量を 325m ³ /s を放水路により 25m ³ /s カットし、300m ³ /s に低減する。さらに、上・中流部は輪中堤により家屋の浸水防御を行う。 | 上・中流部は輪中堤により家屋の浸水防御を行う。下流部は基本高水ピーク流量 325m ³ /s の流下能力を確保する河道改修を行う。 | 河道改修により、基本高水ピーク流量に対応する流下能力を確保する。(下流部中庄地橋での基本高水ピーク流量 325m ³ /s) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 流量配分 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 平面図および標準断面図 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 完成までに要する費用 | <p>事業費 36.9 億円</p> <ul style="list-style-type: none"> 春遠ダム：30.5 億円 (残事業：46.0 億円×アロケ率 0.664) 河道改修：6.4 億円 <p>○河道改修(ダムあり：藤ノ川地区、春遠地区)</p> <table border="1"> <thead> <tr> <th>工種</th> <th>数量</th> <th>金額(百万円)</th> </tr> </thead> <tbody> <tr><td>築堤</td><td>盛土 2,820m³</td><td>11</td></tr> <tr><td>掘削(残土処理含む)</td><td>10,225m³</td><td>35</td></tr> <tr><td>護岸工</td><td>護岸ブロック 3,066m²</td><td>122</td></tr> <tr><td></td><td>根継ぎ工 378m²</td><td>33</td></tr> <tr><td>盛土法面工</td><td>6,984m²</td><td>25</td></tr> <tr><td>仮設工</td><td>1式</td><td>129</td></tr> <tr><td>撤去構造物</td><td>橋梁 1基</td><td>1</td></tr> <tr><td></td><td>頭首工 4箇所</td><td>10</td></tr> <tr><td>護岸工</td><td>2,295m²</td><td>91</td></tr> <tr><td>新設構造物</td><td>橋梁 1基</td><td>37</td></tr> <tr><td></td><td>頭首工 1箇所</td><td>39</td></tr> <tr><td>用地買収</td><td>1基</td><td>56</td></tr> <tr><td>測量試験費・事務費</td><td>1式</td><td>46</td></tr> <tr><td>計</td><td></td><td>635</td></tr> </tbody> </table> <p>6.4億円 ※四捨五入により合計が一致しない場合があります。</p> | 工種 | 数量 | 金額(百万円) | 築堤 | 盛土 2,820m ³ | 11 | 掘削(残土処理含む) | 10,225m ³ | 35 | 護岸工 | 護岸ブロック 3,066m ² | 122 | | 根継ぎ工 378m ² | 33 | 盛土法面工 | 6,984m ² | 25 | 仮設工 | 1式 | 129 | 撤去構造物 | 橋梁 1基 | 1 | | 頭首工 4箇所 | 10 | 護岸工 | 2,295m ² | 91 | 新設構造物 | 橋梁 1基 | 37 | | 頭首工 1箇所 | 39 | 用地買収 | 1基 | 56 | 測量試験費・事務費 | 1式 | 46 | 計 | | 635 | <p>事業費 38.2 億円</p> <p>○遊水地(No.1, No.2)</p> <table border="1"> <thead> <tr> <th>工種</th> <th>数量</th> <th>金額(百万円)</th> </tr> </thead> <tbody> <tr><td>掘削工</td><td>130,000m³</td><td>151</td></tr> <tr><td>護岸工</td><td>1式</td><td>386</td></tr> <tr><td>法面工</td><td>3,460m²</td><td>14</td></tr> <tr><td>残土処理</td><td>129,600m³</td><td>402</td></tr> <tr><td>構造物</td><td>越流堤・排水施設 1式</td><td>48</td></tr> <tr><td>用地買収</td><td>農地 42,000m³</td><td>326</td></tr> <tr><td>測量試験費・事務費</td><td>1式</td><td>82</td></tr> <tr><td>計</td><td></td><td>1,409</td></tr> </tbody> </table> <p>14.1億円</p> <p>○輪中堤(春遠地区、藤ノ川地区)</p> <table border="1"> <thead> <tr> <th>工種</th> <th>数量</th> <th>金額(百万円)</th> </tr> </thead> <tbody> <tr><td>築堤工</td><td>1,870m</td><td>710</td></tr> <tr><td>内水排除</td><td>8基</td><td>960</td></tr> <tr><td>既設本堤強化</td><td>2,400m</td><td>60</td></tr> <tr><td>交通対策</td><td>橋梁架替 3基</td><td>609</td></tr> <tr><td>築堤保護工(水衝撃部等)</td><td>2,260m²</td><td>40</td></tr> <tr><td>家屋補償</td><td>1戸</td><td>30</td></tr> <tr><td>計</td><td></td><td>2,409</td></tr> </tbody> </table> <p>24.1億円 ※四捨五入により合計が一致しない場合があります。</p> | 工種 | 数量 | 金額(百万円) | 掘削工 | 130,000m ³ | 151 | 護岸工 | 1式 | 386 | 法面工 | 3,460m ² | 14 | 残土処理 | 129,600m ³ | 402 | 構造物 | 越流堤・排水施設 1式 | 48 | 用地買収 | 農地 42,000m ³ | 326 | 測量試験費・事務費 | 1式 | 82 | 計 | | 1,409 | 工種 | 数量 | 金額(百万円) | 築堤工 | 1,870m | 710 | 内水排除 | 8基 | 960 | 既設本堤強化 | 2,400m | 60 | 交通対策 | 橋梁架替 3基 | 609 | 築堤保護工(水衝撃部等) | 2,260m ² | 40 | 家屋補償 | 1戸 | 30 | 計 | | 2,409 | <p>事業費 46.8 億円</p> <p>○放水路</p> <table border="1"> <thead> <tr> <th>工種</th> <th>数量</th> <th>金額(百万円)</th> </tr> </thead> <tbody> <tr><td>トンネル工</td><td>1,300m</td><td>2,018</td></tr> <tr><td>掘削工(残土処理含む)</td><td>22,900m³</td><td>71</td></tr> <tr><td>測量試験費・事務費</td><td></td><td>178</td></tr> <tr><td>計</td><td></td><td>2,266</td></tr> </tbody> </table> <p>22.7億円</p> <p>○輪中堤(春遠地区、藤ノ川地区)</p> <table border="1"> <thead> <tr> <th>工種</th> <th>数量</th> <th>金額(百万円)</th> </tr> </thead> <tbody> <tr><td>築堤工</td><td>1,870m</td><td>710</td></tr> <tr><td>内水排除</td><td>8基</td><td>960</td></tr> <tr><td>既設本堤強化</td><td>2,400m</td><td>60</td></tr> <tr><td>交通対策</td><td>橋梁架替 3基</td><td>609</td></tr> <tr><td>築堤保護工(水衝撃部等)</td><td>2,260m²</td><td>40</td></tr> <tr><td>家屋補償</td><td>1戸</td><td>30</td></tr> <tr><td>計</td><td></td><td>2,409</td></tr> </tbody> </table> <p>24.1億円 ※四捨五入により合計が一致しない場合があります。</p> | 工種 | 数量 | 金額(百万円) | トンネル工 | 1,300m | 2,018 | 掘削工(残土処理含む) | 22,900m ³ | 71 | 測量試験費・事務費 | | 178 | 計 | | 2,266 | 工種 | 数量 | 金額(百万円) | 築堤工 | 1,870m | 710 | 内水排除 | 8基 | 960 | 既設本堤強化 | 2,400m | 60 | 交通対策 | 橋梁架替 3基 | 609 | 築堤保護工(水衝撃部等) | 2,260m ² | 40 | 家屋補償 | 1戸 | 30 | 計 | | 2,409 | <p>事業費 37.2 億円</p> <p>○輪中堤(春遠地区、藤ノ川地区)</p> <table border="1"> <thead> <tr> <th>工種</th> <th>数量</th> <th>金額(百万円)</th> </tr> </thead> <tbody> <tr><td>築堤工</td><td>1,870m</td><td>710</td></tr> <tr><td>内水排除</td><td>8基</td><td>960</td></tr> <tr><td>既設本堤強化</td><td>2,400m</td><td>60</td></tr> <tr><td>交通対策</td><td>橋梁架替 3基</td><td>609</td></tr> <tr><td>築堤保護工(水衝撃部等)</td><td>2,260m²</td><td>40</td></tr> <tr><td>家屋補償</td><td>1戸</td><td>30</td></tr> <tr><td>計</td><td></td><td>2,409</td></tr> </tbody> </table> <p>24.1億円</p> <p>○河道改修(ダムなし：貝ノ川地区)</p> <table border="1"> <thead> <tr> <th>工種</th> <th>数量</th> <th>金額(百万円)</th> </tr> </thead> <tbody> <tr><td>築堤</td><td>盛土 2,462m³</td><td>9</td></tr> <tr><td>掘削(残土処理含む)</td><td>18,529m³</td><td>72</td></tr> <tr><td>護岸工</td><td>護岸ブロック 3,188m²</td><td>125</td></tr> <tr><td></td><td>根継ぎ工 770m²</td><td>68</td></tr> <tr><td>盛土法面工</td><td>5,051m²</td><td>17</td></tr> <tr><td>仮設工</td><td>1式</td><td>228</td></tr> <tr><td>撤去構造物</td><td>橋梁 4基</td><td>39</td></tr> <tr><td></td><td>頭首工 5箇所</td><td>10</td></tr> <tr><td>護岸工</td><td>2,592m²</td><td>102</td></tr> <tr><td>新設構造物</td><td>橋梁 4基</td><td>383</td></tr> <tr><td></td><td>頭首工 2箇所</td><td>99</td></tr> <tr><td>既設改良(築堤・法面工)</td><td>1式</td><td>13</td></tr> <tr><td>用地買収</td><td>1基</td><td>45</td></tr> <tr><td>測量試験費・事務費</td><td>1式</td><td>99</td></tr> <tr><td>計</td><td></td><td>1,306</td></tr> </tbody> </table> <p>13.1億円 ※四捨五入により合計が一致しない場合があります。</p> | 工種 | 数量 | 金額(百万円) | 築堤工 | 1,870m | 710 | 内水排除 | 8基 | 960 | 既設本堤強化 | 2,400m | 60 | 交通対策 | 橋梁架替 3基 | 609 | 築堤保護工(水衝撃部等) | 2,260m ² | 40 | 家屋補償 | 1戸 | 30 | 計 | | 2,409 | 工種 | 数量 | 金額(百万円) | 築堤 | 盛土 2,462m ³ | 9 | 掘削(残土処理含む) | 18,529m ³ | 72 | 護岸工 | 護岸ブロック 3,188m ² | 125 | | 根継ぎ工 770m ² | 68 | 盛土法面工 | 5,051m ² | 17 | 仮設工 | 1式 | 228 | 撤去構造物 | 橋梁 4基 | 39 | | 頭首工 5箇所 | 10 | 護岸工 | 2,592m ² | 102 | 新設構造物 | 橋梁 4基 | 383 | | 頭首工 2箇所 | 99 | 既設改良(築堤・法面工) | 1式 | 13 | 用地買収 | 1基 | 45 | 測量試験費・事務費 | 1式 | 99 | 計 | | 1,306 | <p>事業費 57.9 億円</p> <p>○河道改修(ダムなし：貝ノ川地区、藤ノ川地区、春遠地区)</p> <table border="1"> <thead> <tr> <th>工種</th> <th>数量</th> <th>金額(百万円)</th> </tr> </thead> <tbody> <tr><td>築堤</td><td>盛土 21,668m³</td><td>78</td></tr> <tr><td>掘削(残土処理含む)</td><td>84,215m³</td><td>296</td></tr> <tr><td>護岸工</td><td>護岸ブロック 3,188m²</td><td>902</td></tr> <tr><td></td><td>根継ぎ工 1,438m²</td><td>129</td></tr> <tr><td>盛土法面工</td><td>50,161m²</td><td>172</td></tr> <tr><td>仮設工</td><td>1式</td><td>1,066</td></tr> <tr><td>撤去構造物</td><td>橋梁 12基</td><td>55</td></tr> <tr><td></td><td>頭首工 29箇所</td><td>53</td></tr> <tr><td>新設構造物</td><td>橋梁 13基</td><td>685</td></tr> <tr><td></td><td>頭首工 15箇所</td><td>853</td></tr> <tr><td>既設改良(築堤・法面工)</td><td>1式</td><td>13</td></tr> <tr><td>用地買収</td><td>1基</td><td>450</td></tr> <tr><td>測量試験費・事務費</td><td>1式</td><td>417</td></tr> <tr><td>計</td><td></td><td>5,788</td></tr> </tbody> </table> <p>57.9億円 ※四捨五入により合計が一致しない場合があります。</p> | 工種 | 数量 | 金額(百万円) | 築堤 | 盛土 21,668m ³ | 78 | 掘削(残土処理含む) | 84,215m ³ | 296 | 護岸工 | 護岸ブロック 3,188m ² | 902 | | 根継ぎ工 1,438m ² | 129 | 盛土法面工 | 50,161m ² | 172 | 仮設工 | 1式 | 1,066 | 撤去構造物 | 橋梁 12基 | 55 | | 頭首工 29箇所 | 53 | 新設構造物 | 橋梁 13基 | 685 | | 頭首工 15箇所 | 853 | 既設改良(築堤・法面工) | 1式 | 13 | 用地買収 | 1基 | 450 | 測量試験費・事務費 | 1式 | 417 | 計 | | 5,788 |
| 工種 | 数量 | 金額(百万円) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 築堤 | 盛土 2,820m ³ | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 掘削(残土処理含む) | 10,225m ³ | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 護岸工 | 護岸ブロック 3,066m ² | 122 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 根継ぎ工 378m ² | 33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盛土法面工 | 6,984m ² | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 仮設工 | 1式 | 129 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 撤去構造物 | 橋梁 1基 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 頭首工 4箇所 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 護岸工 | 2,295m ² | 91 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 新設構造物 | 橋梁 1基 | 37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 頭首工 1箇所 | 39 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 用地買収 | 1基 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 測量試験費・事務費 | 1式 | 46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 計 | | 635 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 工種 | 数量 | 金額(百万円) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 掘削工 | 130,000m ³ | 151 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 護岸工 | 1式 | 386 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 法面工 | 3,460m ² | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 残土処理 | 129,600m ³ | 402 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 構造物 | 越流堤・排水施設 1式 | 48 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 用地買収 | 農地 42,000m ³ | 326 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 測量試験費・事務費 | 1式 | 82 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 計 | | 1,409 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 工種 | 数量 | 金額(百万円) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 築堤工 | 1,870m | 710 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 内水排除 | 8基 | 960 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 既設本堤強化 | 2,400m | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 交通対策 | 橋梁架替 3基 | 609 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 築堤保護工(水衝撃部等) | 2,260m ² | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 家屋補償 | 1戸 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 計 | | 2,409 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 工種 | 数量 | 金額(百万円) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| トンネル工 | 1,300m | 2,018 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 掘削工(残土処理含む) | 22,900m ³ | 71 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 測量試験費・事務費 | | 178 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 計 | | 2,266 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 工種 | 数量 | 金額(百万円) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 築堤工 | 1,870m | 710 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 内水排除 | 8基 | 960 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 既設本堤強化 | 2,400m | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 交通対策 | 橋梁架替 3基 | 609 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 築堤保護工(水衝撃部等) | 2,260m ² | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 家屋補償 | 1戸 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 計 | | 2,409 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 工種 | 数量 | 金額(百万円) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 築堤工 | 1,870m | 710 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 内水排除 | 8基 | 960 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 既設本堤強化 | 2,400m | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 交通対策 | 橋梁架替 3基 | 609 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 築堤保護工(水衝撃部等) | 2,260m ² | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 家屋補償 | 1戸 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 計 | | 2,409 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 工種 | 数量 | 金額(百万円) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 築堤 | 盛土 2,462m ³ | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 掘削(残土処理含む) | 18,529m ³ | 72 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 護岸工 | 護岸ブロック 3,188m ² | 125 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 根継ぎ工 770m ² | 68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盛土法面工 | 5,051m ² | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 仮設工 | 1式 | 228 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 撤去構造物 | 橋梁 4基 | 39 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 頭首工 5箇所 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 護岸工 | 2,592m ² | 102 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 新設構造物 | 橋梁 4基 | 383 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 頭首工 2箇所 | 99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 既設改良(築堤・法面工) | 1式 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 用地買収 | 1基 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 測量試験費・事務費 | 1式 | 99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 計 | | 1,306 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 工種 | 数量 | 金額(百万円) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 築堤 | 盛土 21,668m ³ | 78 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 掘削(残土処理含む) | 84,215m ³ | 296 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 護岸工 | 護岸ブロック 3,188m ² | 902 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 根継ぎ工 1,438m ² | 129 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 盛土法面工 | 50,161m ² | 172 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 仮設工 | 1式 | 1,066 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 撤去構造物 | 橋梁 12基 | 55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 頭首工 29箇所 | 53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 新設構造物 | 橋梁 13基 | 685 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 頭首工 15箇所 | 853 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 既設改良(築堤・法面工) | 1式 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 用地買収 | 1基 | 450 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 測量試験費・事務費 | 1式 | 417 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 計 | | 5,788 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 36.9 億円 | 38.2 億円 | 46.8 億円 | 37.2 億円 | 57.9 億円 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

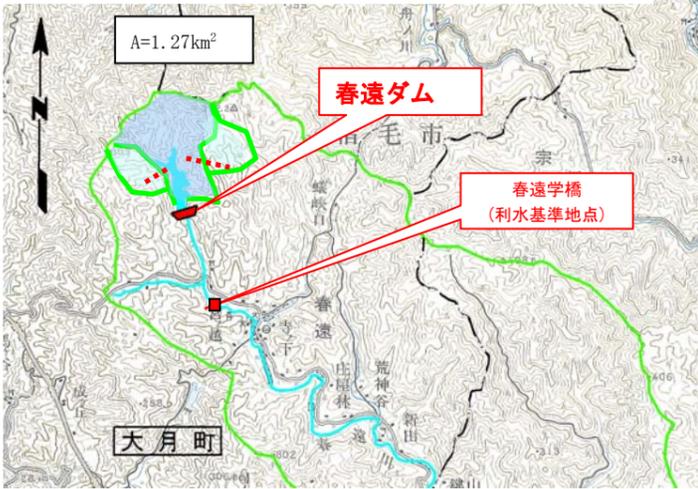
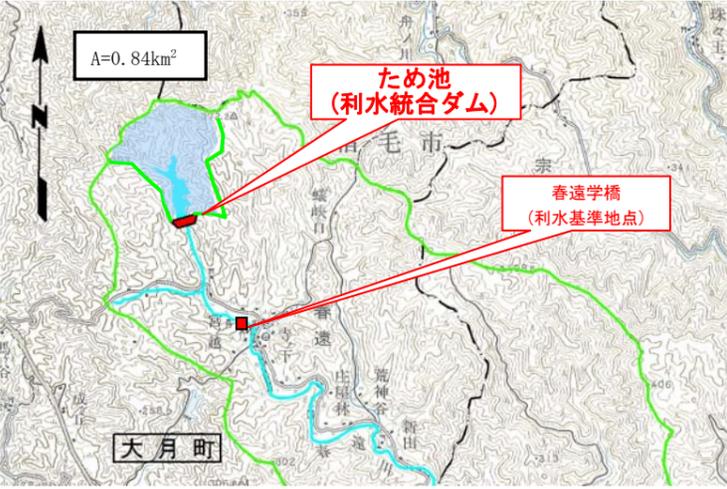
② 新規利水対策案

②-1 新規利水対策案の抽出



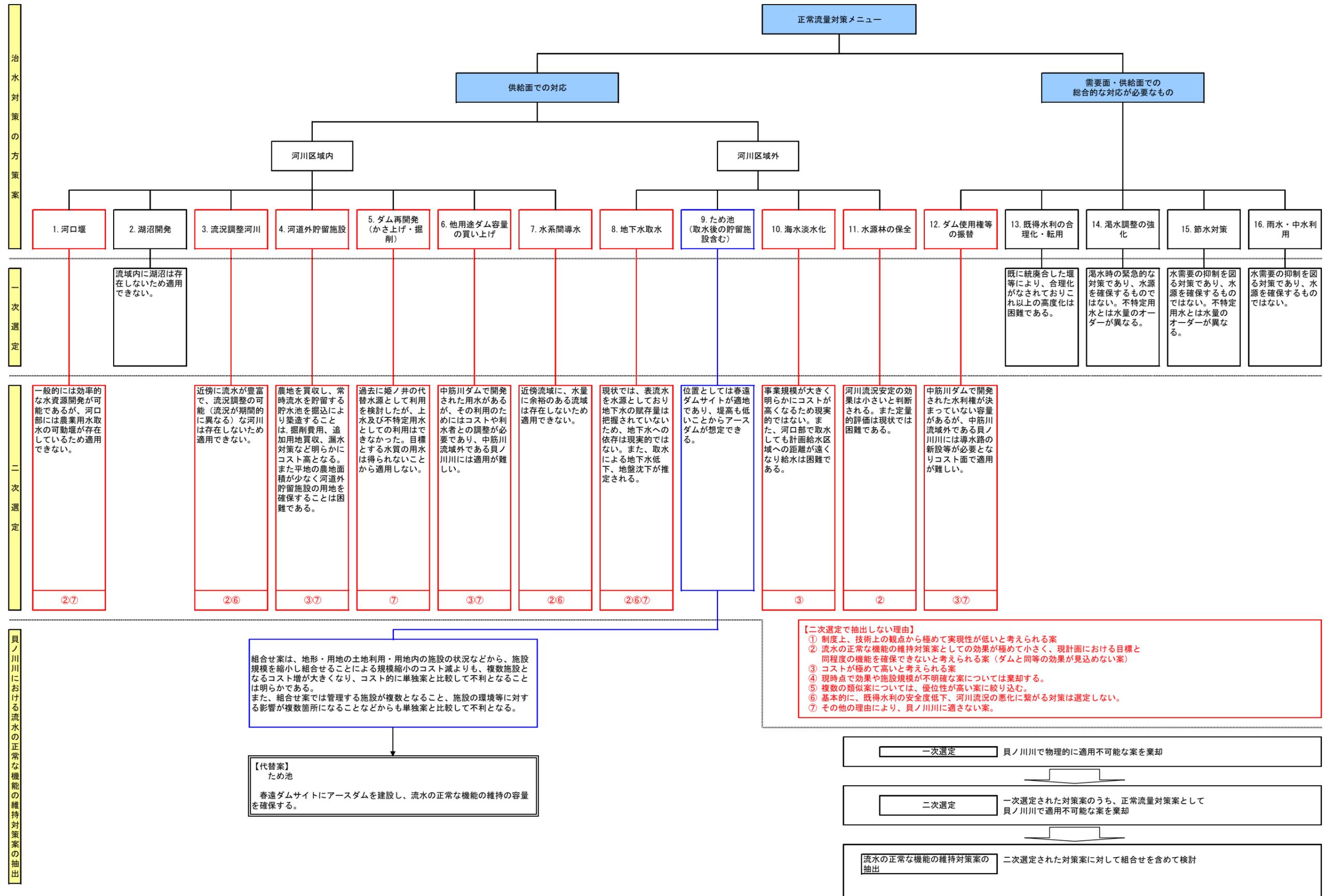
利水対策案選定フロー

②-2 抽出した代替案の概要

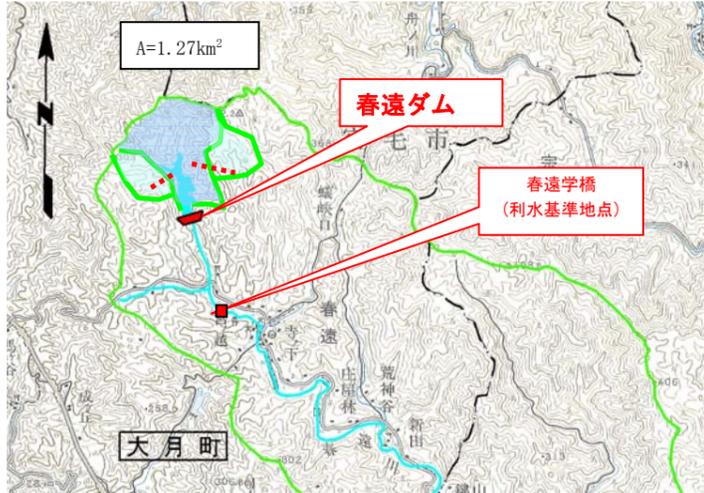
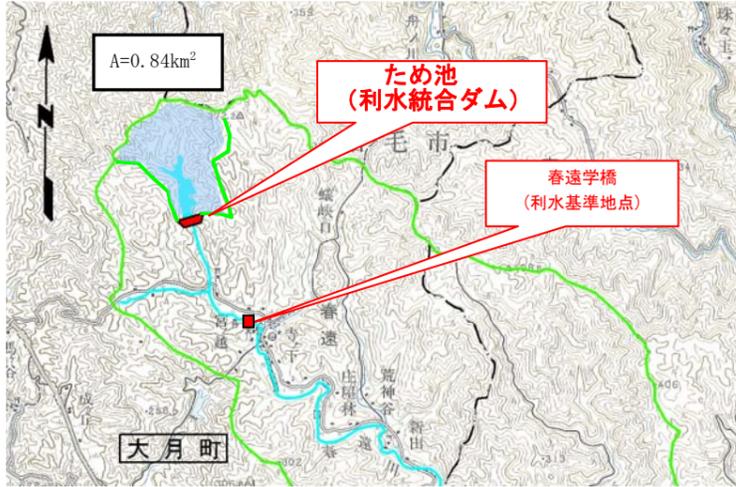
| 対策案 | 河川整備計画(案) | 代替案① |
|---------------------|--|--|
| | 春遠ダム | ため池 (春遠ダムサイト) |
| 概要 | 共同ダムの春遠ダムにより、新規利水容量を確保する。 | 春遠ダムサイトにアースダムを建設し、新規利水容量を確保する。 |
| 平面図 および 標準断面図 |  |  |
| | <p>春遠ダム案：</p> <ul style="list-style-type: none"> ・総貯水容量 : 770,000m³ ・有効貯水容量 : 730,000m³ ・新規水容量 : 90,000m³ ・堆砂容量 : 40,000m³ | <p>統合ダム案：</p> <ul style="list-style-type: none"> ・総貯水容量 : 310,000m³ ・有効貯水容量 : 270,000m³ ・新規水容量 : 90,000m³ ・堆砂容量 : 40,000m³ |
| 開発量 | 新規水道容量 90,000m ³ | 新規水道容量 90,000m ³ |
| 完成までに 要する費用 | <p>・春遠ダム : 1.1 億円</p> <p>※共同ダム残事業費×アロケ率 =46.0 億円×0.024=1.1 億円</p> | <p>統合ダム 18.1 億円</p> <p>18.1 億円×アロケ率 0.167(新規利水・流水の正常な機能の維持の割合) =3.0 億円</p> |
| | 1.1 億円 | 3.0 億円 |

③ 流水の正常な機能の維持対策案

③-1 流水の正常な機能の維持対策案の抽出



③-2 抽出した代替案の概要

| 対策案 | 河川整備計画(案) | 代替案① |
|---------------------|---|---|
| | 春遠ダム | ため池 (春遠ダムサイト) |
| 概要 | 共同ダムの春遠ダムにより、流水の正常な機能の維持の容量を確保する。 | 春遠ダムサイトにアースダムを建設し、流水の正常な機能の維持の容量を確保する。 |
| 平面図 および 標準断面図 |  |  |
| | <p>春遠ダム案：</p> <ul style="list-style-type: none"> ・総貯水容量 : 770,000m³ ・有効貯水容量 : 730,000m³ ・不特定容量 : 180,000m³ ・堆砂容量 : 40,000m³ | <p>統合ダム案：</p> <ul style="list-style-type: none"> ・総貯水容量 : 310,000m³ ・有効貯水容量 : 270,000m³ ・不特定容量 : 180,000m³ ・堆砂容量 : 40,000m³ |
| 開発量 | 不特定容量 180,000m ³ | 不特定容量 180,000m ³ |
| 完成までに 要する費用 | <p>・春遠ダム : 14.3 億円</p> <p>※共同ダム残事業費×アロケ率 =46.0 億円×0.312=14.3 億円</p> | <p>統合ダム 18.1 億円</p> <p>18.1 億円×アロケ率 0.833(新規利水・流水の正常な機能の維持の割合) =15.1 億円</p> |
| | 14.3 億円 | 15.1 億円 |

4. 検討の場の開催状況、パブコメ・意見聴取の実施状況、それぞれの概要

以下に検証に係る検討における、検討会議(「検討の場」)、パブコメ、意見聴取の実施フローを示す。



図-4.1 春遠ダムの検証検討の経緯

① 春遠ダム事業に係る「検討の場」について

春遠ダム事業の検証に係る検討における「関係地方公共団体からなる検討の場」として「春遠ダム検討会議」を設置した。

表-4.1 春遠ダム検討会議委員一覧(敬称略)

| 区分 | 団体名 | 役職名 | 氏名 | |
|----------|-----|-------|---------------|-------|
| 関係地方公共団体 | 大月町 | 町長 | 柴岡 邦男 | |
| | 高知県 | 土佐清水市 | 市長 | 杉村 章生 |
| | | 河川課長 | | 吉本 祐二 |
| | | | 幡多土木事務所宿毛事務所長 | |

主な意見：

- 春遠ダム建設事業は、地域住民も一体となり地元の合意形成を経て現在に至っている。地元の合意は十分に尊重してもらいたい。
- コスト以外の評価軸による評価は、コスト算出後の結果に左右されないか。
- ダム建設を中止し他の対策案を実施する場合、各地区においてどのような影響が想定されるか。
- 春遠地区は大月町の優良な農業地域であり、輪中堤を実施するのは、地元同意を得るのは困難なのではないか。
- 既存のため池「宮ノ越ため池」の農業用水は、水道用水としては水質が悪いため再開発して新規利水として利用することはできない。

事業評価監視委員会

開催日：平成 23 年 7 月 19 日

メンバー：委員長 那須 清吾 氏(高知工科大学工学部教授)

委員 松本 伸介 氏(高知大学農学部教授)

委員 中澤 純治 氏(高知大学人文学部准教授)

委員 谷脇 敦美 氏(高知県経営者協会労政調査部副部長)

委員 古谷 純代 氏(高知県商工会議所女性会連合会会長)

委員 近澤 孝雄 氏(一般公募)

主な意見：

- 計画洪水の確率規模が 1/30 であるが、H13 西南豪雨と同程度か、それ以上の雨が降るとダム下流で溢水するのか。西南豪雨と同程度の降雨が発生した場合の想定はあるか。
- 計画洪水の基礎となる雨量はどの地点で観測しているのか。
- 計画洪水の想定到達時間はどれぐらいか。
- ダム建設によって下流の河川、海岸への土砂補給が減少するのではないか。堆砂の処理、利用に関してどのように考えているか。
- 地元住民からはダム事業についてどのような要望があったか。
- 今後、地区の生活形態の変化や人口減少があると思うが、各対策案ごとの残工期に変更はないか。
- 用地買収も終了している箇所なので、是非とも早急に進捗を進めていただきたい。

提言：

- 現行計画(春遠ダム+引堤)とその他の代替案について、一定の安全度を確保した上でコストを重視した評価を行うとともに、実現性や地域社会への影響などの総合的な評価を行った「個別ダムの検証」結果については妥当と判断する。また、ダムサイトの用地買収も終了しており、住民からのニーズも高いうえ、B/Cも1.0以上となっていることから、事業を「継続」とする。なお、早期に事業進捗していくよう意見させていただく。

審議結果：

- 継続

5. 対応方針

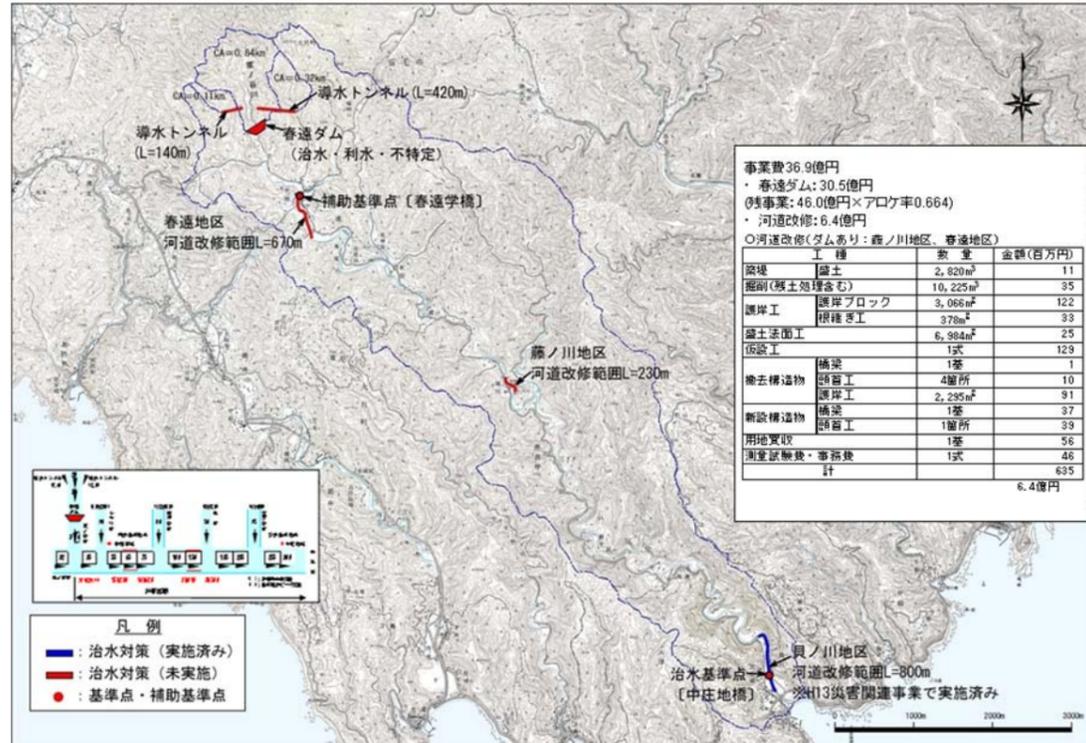
高知県では、「ダム事業の検証に係る検討に関する再評価実施要領細目」に基づき検討した結果、春遠ダム事業を継続実施とする。

【決定期由】

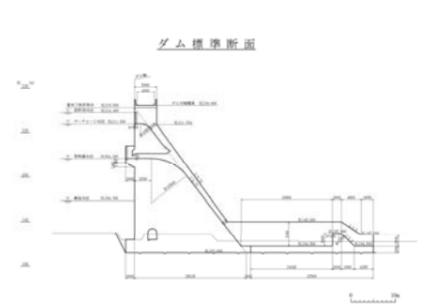
現行計画(春遠ダム+引堤)とその他の代替案について、一定の安全度を確保した上でコストを重視した評価を行うとともに、実現性や地域社会の影響などの総合的な評価を行った「個別ダムの検証」結果については妥当と判断する。

6. 事業評価監視委員会資料

○治水対策案：春遠ダム+引堤（位置図）

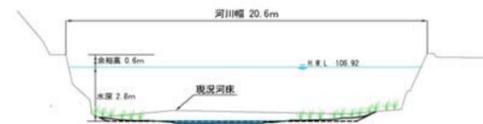


○春遠ダム+引堤

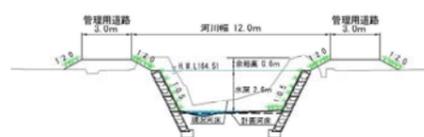


河道改修

藤ノ川地区

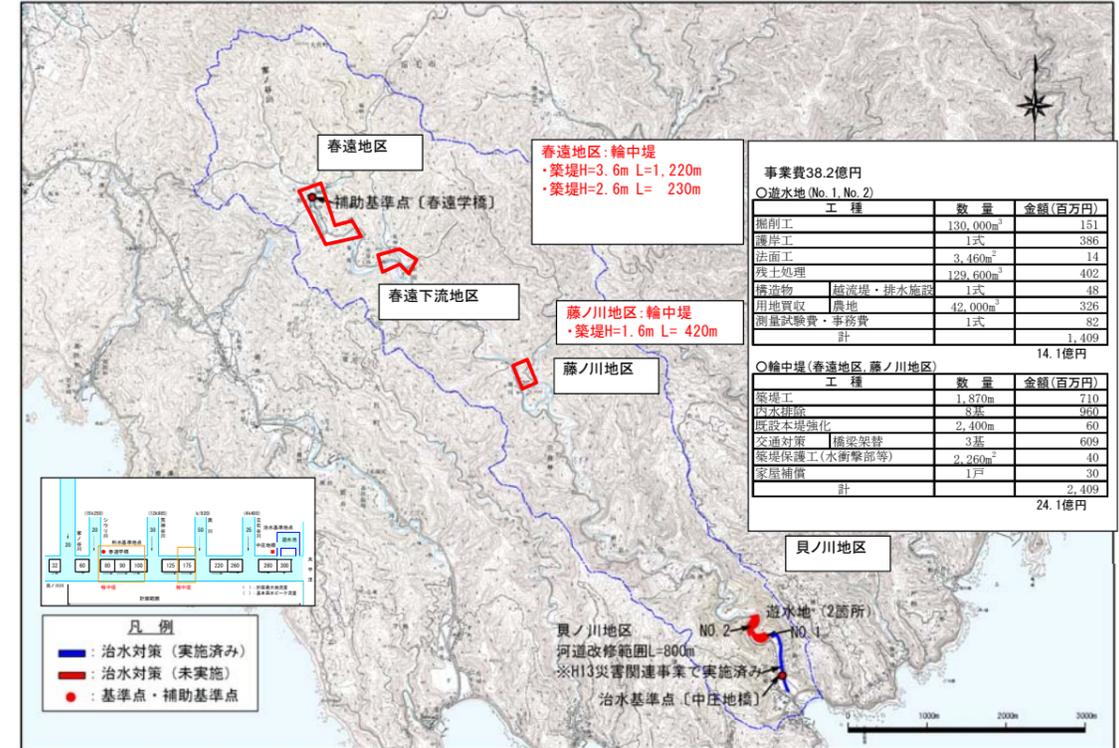


春遠地区

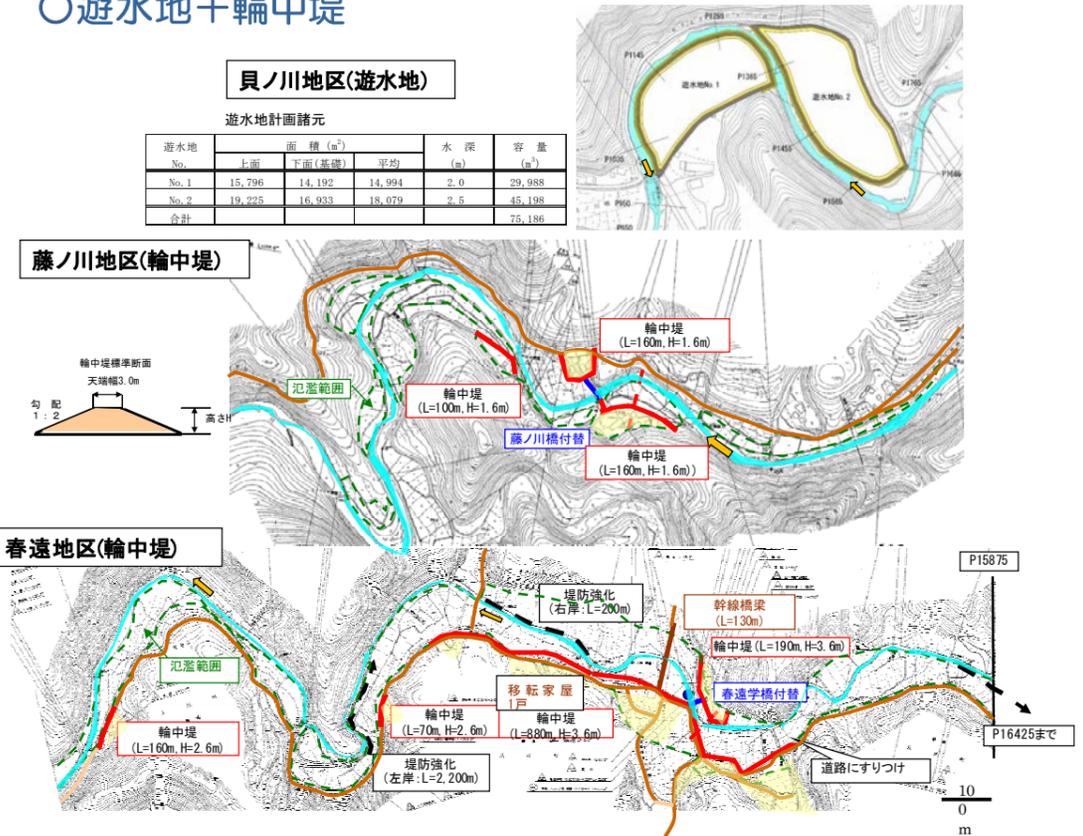


| 項目 | 春遠ダム | |
|------------------------|------------|-------------|
| 貯水容量(千m ³) | 堆砂容量 | 40 |
| | 利水容量 | 270 |
| | 洪水調節容量 | (内、不特定 180) |
| 標高 | 基礎岩盤 | EL. 183.0m |
| | 最低水位 | EL. 194.7m |
| 高さ | 常時満水位 | EL. 204.2m |
| | サーチャージ水位 | EL. 211.9m |
| | 設計洪水水位 | EL. 214.4m |
| ダム天端 | EL. 216.0m | |
| ダム高(m) | 33.0 | |
| 堤体積(m ³) | 21,300 | |

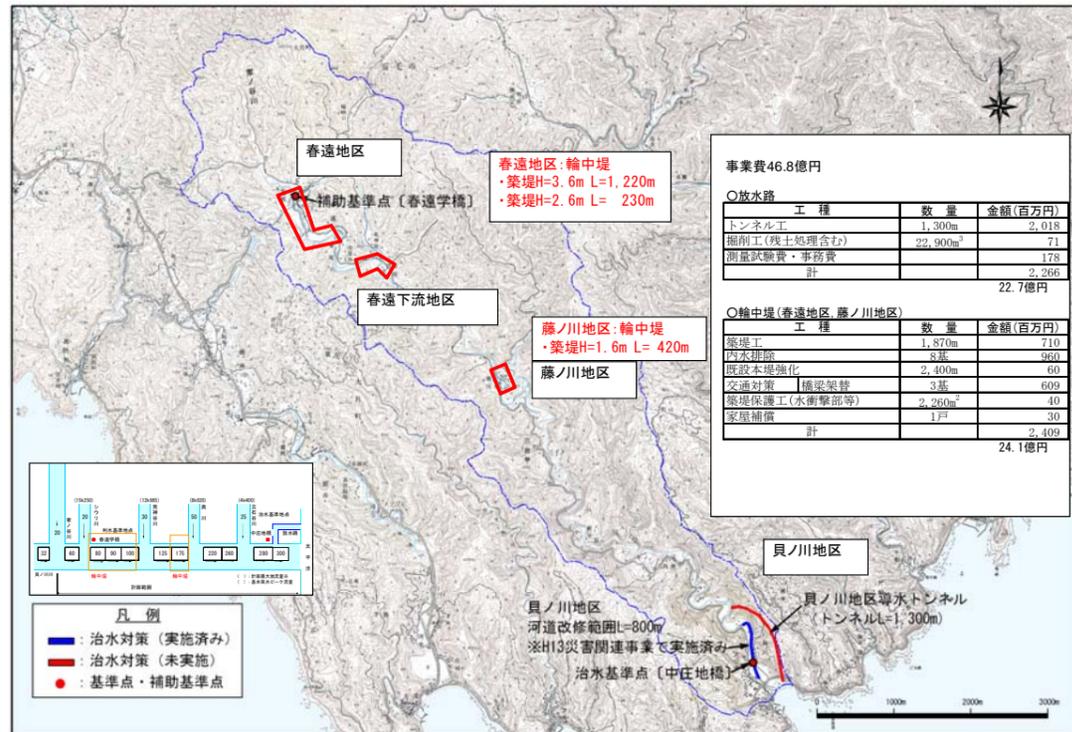
○治水対策案：遊水地+輪中堤



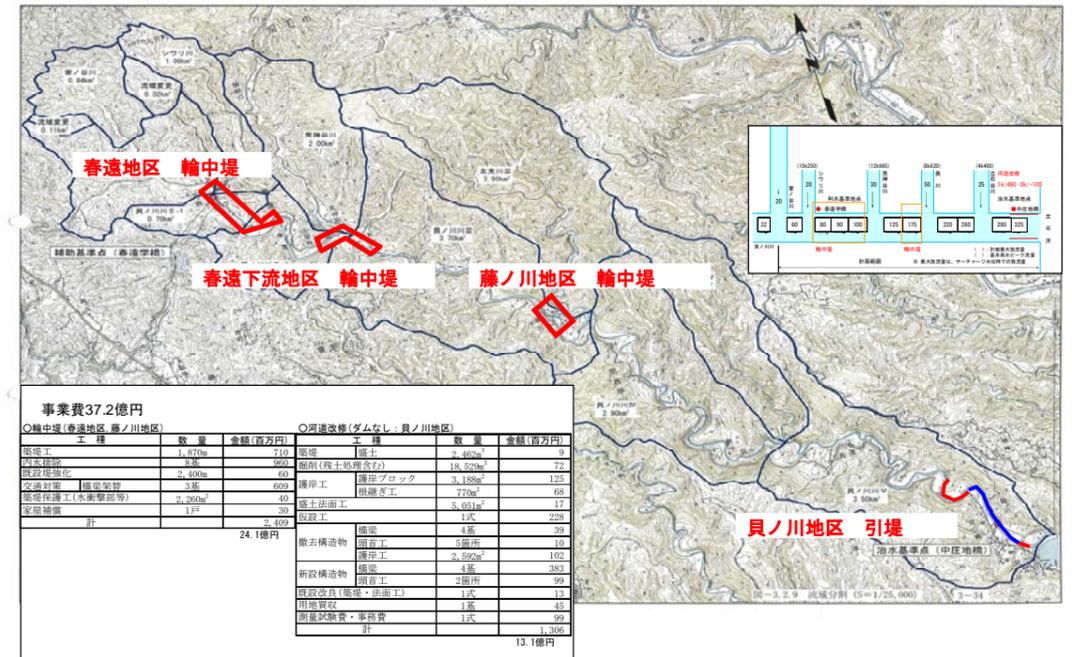
○遊水地+輪中堤



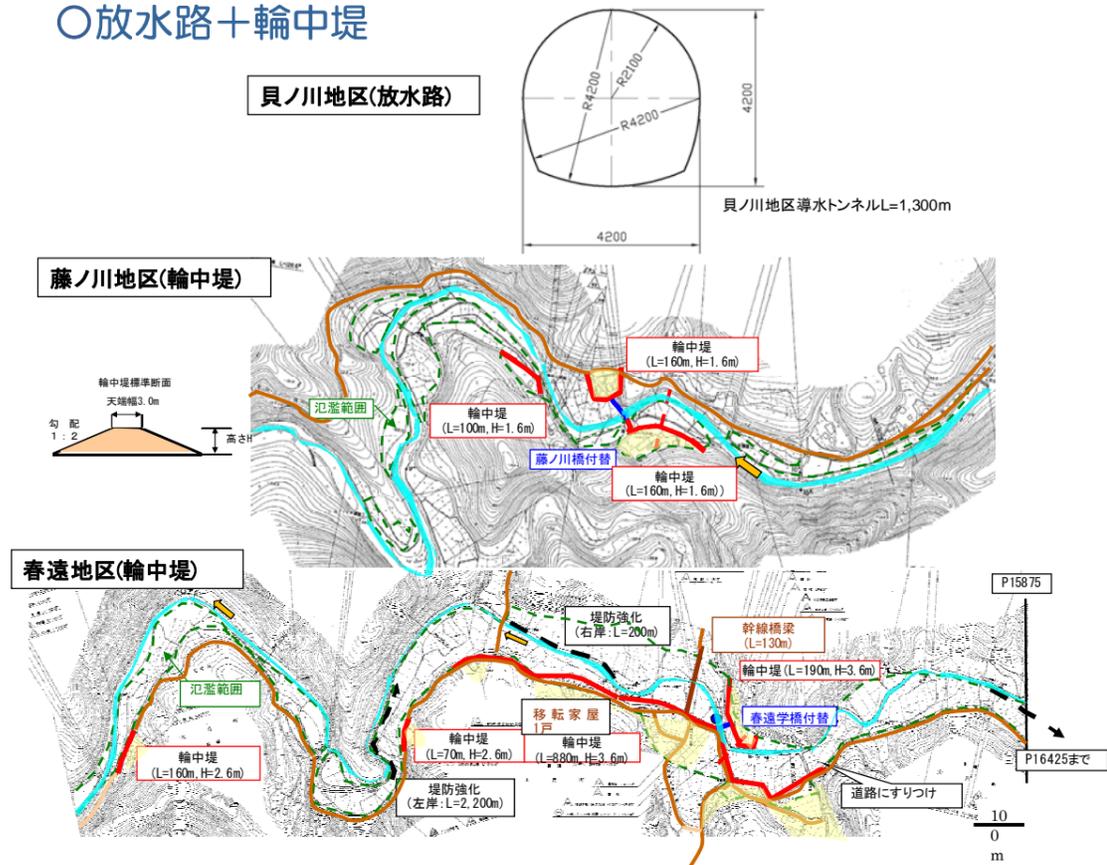
○治水対策案：放水路+輪中堤



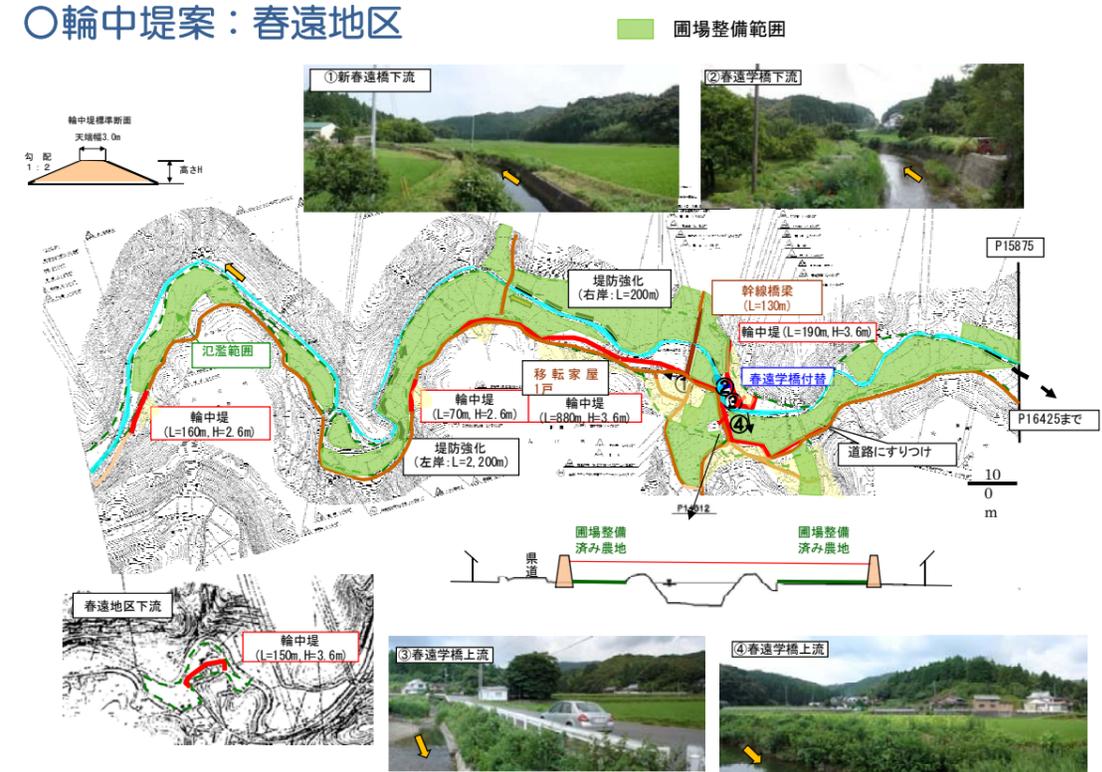
○治水対策案：輪中堤+引堤



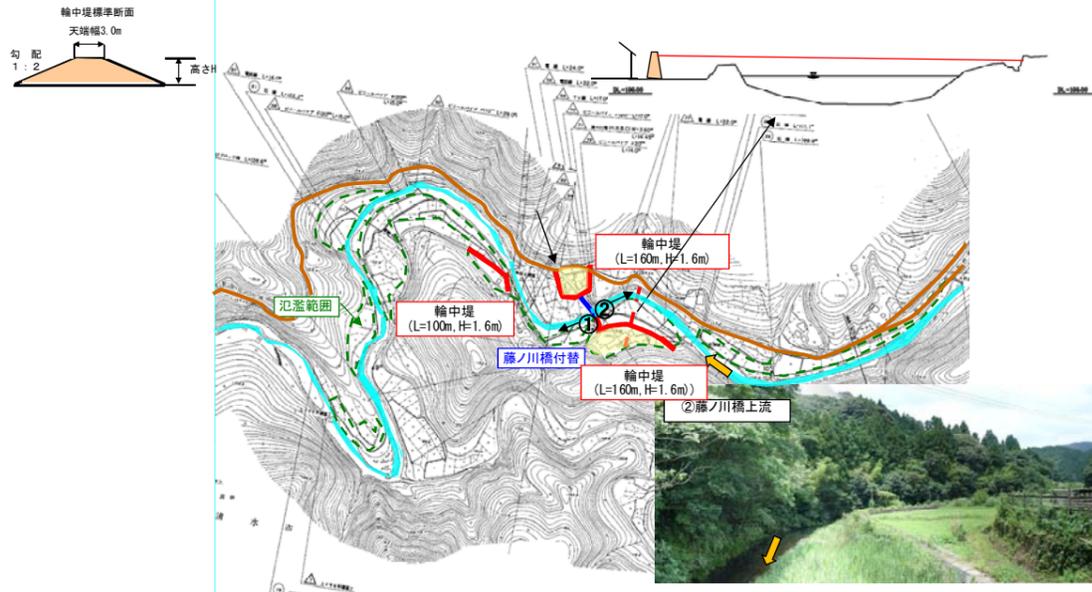
○放水路+輪中堤



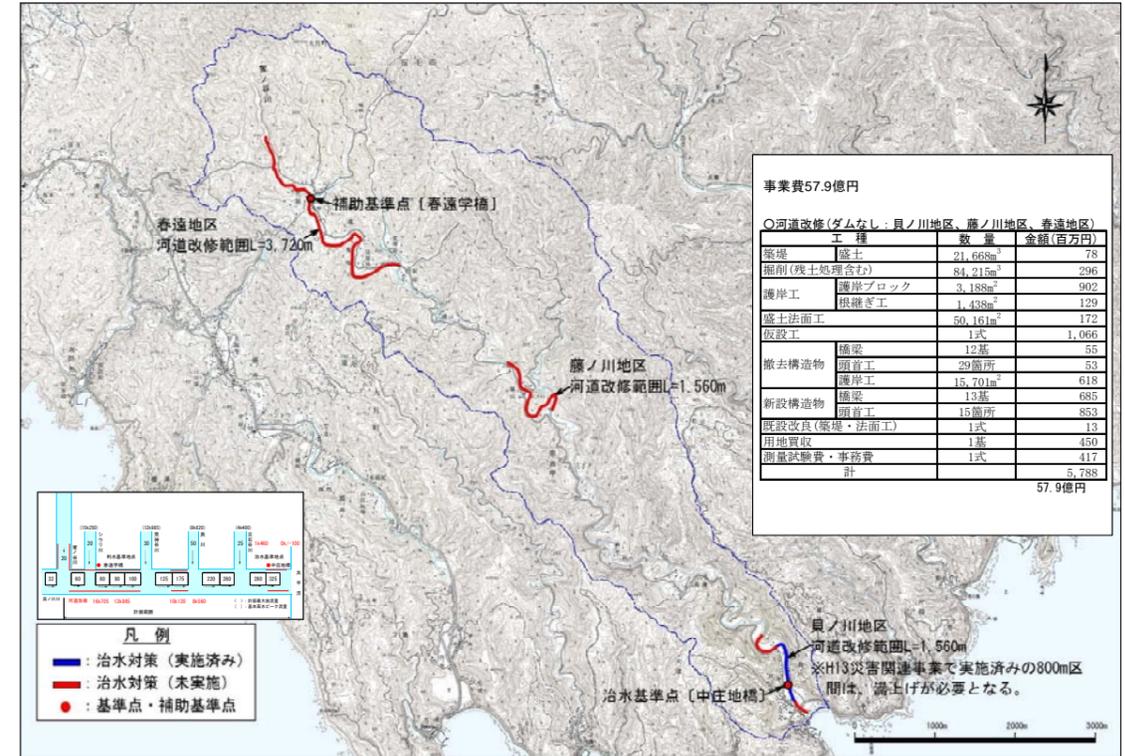
○輪中堤案：春遠地区



○輪中提案：藤ノ川地区

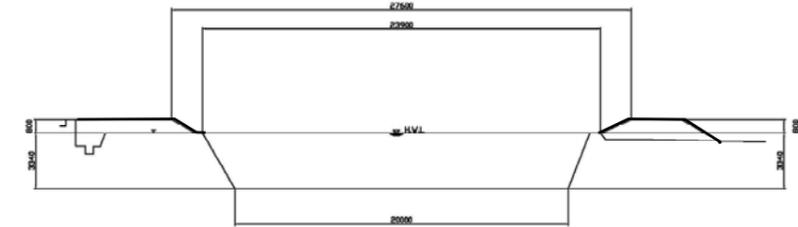


○治水対策案：引堤

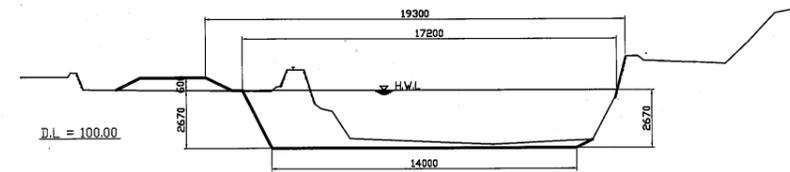


○引堤

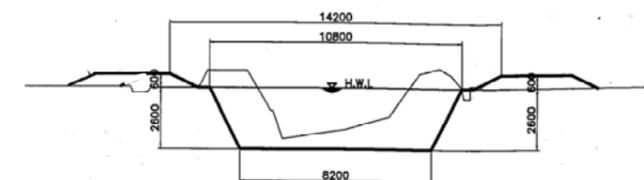
貝ノ川地区



藤ノ川地区



春遠地区

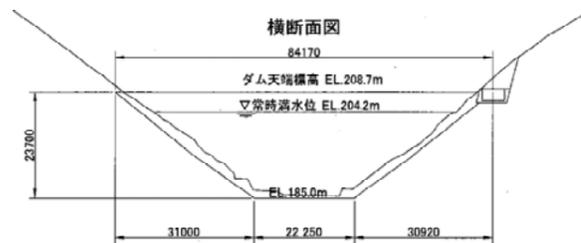


○ため池(利水統合)



○ため池(利水統合)

220
210
200
190
180



| 項目 | ため池 (利水統合) | 適用 |
|----------------------------|-------------------|-------|
| 貯水容量 (千m ³) | 堆砂容量 | 40 |
| | 利水容量 | 270 |
| | 総貯水容量 | 310 |
| 標高 (El. m) | 基礎岩盤 | 185.0 |
| | 最低水位 | 194.7 |
| | 常時満水位 | 204.2 |
| | 設計洪水位 | 206.7 |
| | ダム天端 | 208.7 |
| ダム高(m) | 23.7 | |
| 堤体積(m ³) | 82,300 | |
| 事業費(百万円) | 1,811 (18.1億円) | |

