Inland Empire Brine Line
Reach V Rehabilitation and Improvement Project – Phase 1

October 4, 2016
Recommendation

- Find that the unfinished condition of the Reach V Rehabilitation and Improvement Project after the termination for cause of the Project contractor continues to be an emergency that requires immediate action per the Commission’s prior action on August 2, 2016.
Reach V Rehabilitation and Improvement Project Phase 1

Task 1: Remove defective liner/PVC pipe and replace with new PVC pipe.
Task 2: Complete CKC deficiencies and place liners 1-10 into service.
Task 3: Remove by-pass system, complete CKC deficiencies.
Task 4: Rehabilitate Brine Line with Cured-In-Place Pipe.
Questions?
Task 1 and 2 Proposal

- Remove 3,340’ deficient PVC/CIIPP
- Install 3,340’ new PVC Pipe
- Correct deficiencies from previous contractor
- Maintain by-pass line (12,000 ft)
- Dewater, CCTV and Pressure test Norditube liners (7,500 ft)
Brine Line PATs

Recommendation to Commission:

- Provide comments, then receive and file
Brine Line PATs

Support the achievement of a long-term, watershed-wide salinity balance through:

1. Water quality maintenance, enhancement, and protection in the Santa Ana River and groundwater basins;
2. Water resources management, including imported water recharge;
3. Disposal of emergency discharges from local wastewater treatment plants;
4. Supporting industries limited by salt in their effluent, including energy production facilities; and
5. Providing existing and future public agencies and private industry with a cost-effective salinity management option.
Brine Line PATs

- Critical Success Factors

1. Minimize disruption to customers
2. Ensure that Brine Line value and benefits are known to economic development agencies and others.
3. Maintain sufficient funding and reserves for current and future Capital and O&M costs through a stable, predictable, and affordable rates and charges.
4. Provide professional and highly-trained staff across planning, administration, engineering and field operations.
5. Protect and preserve the useful life of Brine Line assets through strategic maintenance, repair, and capital improvements.
6. Conduct proactive capital and O&M planning to improve efficiency and maintain needed capacity in the long and medium terms.
7. Maintain strong relationships with OCSD and regulatory agencies.
8. Operate the Brine Line to: (1) protect the OCSD treatment plant and the environment from non-compliant dischargers, and (2) eliminate any uncontrolled pipeline releases.
Brine Line PATs

Categories

1. Marketing Plan – (consultant prep & implement) maximize use, salt removal
   - Fixed costs allocated to more volume reduces unit cost

2. Business Plan – (consultant prep) forecasting requirements, expenses, flows, financial resources, rate model update, billing procedure, performance metrics, data requirements, permits
Categories (cont’d)

3. Sewer System Management Plan – O&M requirements defined, no overflows, implementation of annual program, Collection Station operations, data collection, analysis, adjustments to program

4. Communications – automation of processes, web based information and data, customer feedback, coordination with OCSD, COE, cities, flood control agencies, property owners (easements)
Engineering & Operations

PAT Implementation

- Operations
- Permitting & Pretreatment
- Engineering
Pipe Information

Reach IV – RCP, lined, 2 miles, 42”, 41 years
- HDPE, 0.5 miles, 48”, 7 years
- RCP, 0.33 miles, 48”, 7 years

Reach IV-A – RCP, lined, 8 miles, 18-42”, 35 years, liner 3 years

Reach IV-B – 16-36”
- RCP, lined, 3 miles, 35 years, liner 3 years
- VCP, 1 mile, 35 years
- PVC, 6 miles, 20 years
Pipe Information

Reach IV-D – 39–48”
- RCP, lined, 12 miles, 23-26 years
- VCP, 8 miles, 23-26 years
- HDPE, 0.5 miles, 23 years

Reach IV-E – 39 – 48”
- RCPP, lined, 6.5 miles, 22 years
- VCP, 0.75 mile, 24 years

Reach V – 24 – 30”
- HDPE, 8.5 miles, 15 years, 1.0 miles, 1 year
- PVC 11.5 miles, 15 years, 1.5 miles, CIPP liner, 1 year
Maintenance Plan

- **Emphasis on spill reduction**
  - Air/vac valve refurbishment (55)
  - Development of air/vac auto controller
  - At-grade air/vac secondary containment
  - Access door added to air/vac enclosure (completed)

- **Preventative Maintenance deferred – backlog**
    - Finding: broken lid bolts, unsecure, liner repairs req’d
  - Potholing for line location confirmation – Reach V overland alignment/inaccurate as-built dwgs
  - Increased rate of scale accumulation due to reduced blending sources (domestic wastewater)

- **Increasing Dig-Alert Workload**
SSO Trend

- 7/1/12 - 6/30/13
- 7/1/13 - 6/30/14
- 7/1/14 - 6/30/15
- 7/1/15 - 6/30/16

- Category 1
- Category 2
- Category 3
- Total
- Linear (Total)
Table of PATs

- Page 1 – required number of labor hours for “A” level service, by quarter, for 5 years
- Page 2 – FYE17 budget hours, labor hour shortfall or reallocation due to task sequencing
  (budget hrs – req’d hrs = shortfall/reallocation)
  - Reallocation is negative value
  - Blue highlighted tasks = pretreatment tasks
  - Yellow highlighted tasks = field operations
Table of PATs

- **Evaluation**
  - 930 hrs field operations tasks shortfall for FY18
  - Field ops supports pretreatment program (PTP)
    - Sampling, inspections for agency owned facilities
    - 0.5 person in FY18
  - New field ops position - fill shortfall & PTP support
  - Fully implement Preventive Maintenance program, reduce backlog of repair work
  - Entry level position contemplated for succession planning
Table of PATs

- Next steps
  - Continue evaluation as part of budget process
  - Assess cost savings, benefits, impact to rates
Inland Empire Brine Line Processes, Activities, Tasks

Recommendation to Commission:

- Receive and file
QUESTIONS?
Invitation to Participate in the Santa Ana River Parkway and Open Space Plan Technical Advisory Committee
Critical Success Factors

SAWPA has a strong reputation as a watershed-wide, knowledgeable, neutral and trusted facilitator, leader, and administrator of contracted activities.

Clear upfront criteria and terms for completing or transitioning efforts that have been successfully established or completed.

Report and use results of roundtable’s work, leverage information and involvement for the benefit of SAWPA, its members, and other stakeholders.

Adequate professional staff and resources to effectively provide facilitation, management, administrative and technical support to collaborative work efforts.
Santa Ana River Conservancy Program

- Created by Legislation, Senate Bill 1390 (Sen. Lou Correa)
- Program is to be implemented with the Coastal Conservancy facilitating
- Legislative argument for Program:
  - Area is fastest growing in State
  - Area is park poor
Coastal Conservancy

- Not the Coastal Commission

- Does **not** have regulatory powers
- Provides technical assistance, facilitation and manages grants.
Conservancy Program Focus

- One major focus is completion of the 100 mile long Santa Ana River Trail
Conservancy Program Focus

- Develop an open space plan.
- Fund projects related to:
  - open space,
  - trails,
  - wildlife habitat,
  - agricultural land protection,
  - water quality protection,
  - educational use, and
  - public access.
MOU on Santa Ana River Trail

- Agencies to coordinate trail across jurisdictional boundaries
- Work together to secure funding
Policy Advisory Group

SAWPA Commission Extended MOU in October 2015
Past Policy Advisory Group
Mission

Complete Trail
Current Policy Advisory Group

Mission

Complete Trail
Advise the Conservancy Program
SAWPA Involvement in Trail Planning

- SAWPA Commission member on Policy Advisory Group
- Administered staff-level technical working group focused on Trail completion
- Hosted Trail website
- SAWPA served as contracting arm before 2006 MOU (similar to other SAWPA Roundtables)
- Work with Riverside County Parks and Chino Hills State Parks on Prado trail segment completion
Coastal Conservancy
Invitation

- Requests that SAWPA Staff Participate in new Technical Advisory Committee
- Committee will:
  - Help identify priorities and values for the Santa Ana River Parkway and Open Space Plan
  - Identify project selection criteria and projects for inclusion in the Parkway Plan
  - Provide input and feedback on the Plan throughout its development
Level of Effort

- The Committee would meet for three half day sessions
  - October 2016
  - March 2017
  - June 2017
- Would likely total to 15 hours of meeting time and 10 hours of preparation and follow up.
- Follow up includes providing feedback for project submittal criteria and plan goals/objectives.
- This follow up will likely be provided via email and an online web portal.
- Funding and sufficient staffing is available through Basin Planning General Fund 370-01BASIN within the SAWPA current budget to address this work.
Benefits to Participation on Committee

- Support Commissioner Anthony in his role on Policy Advisory Group
- Leverage work done on Committee for OWOW and Forest First Roundtable
- Level of effort defined up front
- Maintains SAWPA’s reputation as leader in watershed planning
Recommendation

That the Commission approve staff’s participation in the Santa Ana River Parkway and Open Space Plan Technical Advisory Committee.
Stormwater Quality Standards Task Force

Regional Water Quality Monitoring Task Force Agreement

Item 6.F
Recommendation for Approval
SAWPA Commission
Oct 4, 2016
History / Timeline

**Stormwater Quality Standards Task Force**
- May 2003 - SAWPA approved Agreement

**Middle Santa Ana River Pathogen TMDL Task Force**
- January 2006 - SAWPA approved Agreement
- May 2007 - EPA Approves MSAR TMDLs

**Stormwater Quality Standards Task Force**
- June 2012 – Regional Board adopts
  Basin Plan Amendment Revising Recreation Standards for Inland Freshwaters
- April 2015 - EPA Approves Basin Plan Amendment Revising Recreation Standards for Inland Freshwaters

**Regional Water Quality Monitoring Program**
- March 2016 – Regional Board approves
  Santa Ana Watershed Bacteria Monitoring Program and Quality Assurance Project Plan reflecting a need for a new Task Force
Purpose

- Regional Water Quality Monitoring Task Force implements a coordinated regional surface water quality (bacteria) monitoring program:
  - Meet the Implementation Plan requirements of the Basin Plan
  - Support consolidation and standardization of regional programs such as the Middle Santa Ana River Bacteria TMDL
  - Assist Regional Board with future triennial reviews and future amendments of the Basin Plan
  - Annual reporting to Regional Board (June)
Benefits to SAWPA

- Supports continuing mission to improve regional water quality
- Utilizes staff experience and expertise in managing and administering multi-agency Task Forces
- Continues partnership with Santa Ana Regional Board in providing regional facilitation and support services
- Provides data, studies and project plans to support SAWPA’s One Water One Watershed Plan
- Consolidates multiple monitoring efforts to achieve economies of scale
  - Additionally, it is anticipated to expand to include other monitoring as the need arises
SAWPA’s Role

- SAWPA staff will serve as administrator at the request of Regional Board and three county Flood Control Agencies and shall be reimbursed for its time expended by Task Force participant:
  - Organizing and facilitating Task Force meetings
  - Secretarial, clerical, and administrative services
  - Prepare annual budgets, invoices
  - Manage and report on stakeholder funds
  - Act as contracting party and contract administrator
  - Explore grant funding opportunities
  - Coordinate with other agencies
  - Communicate with Regional Board
## Annual Budget

### Summary FY 2016-17 Regional Water Quality Monitoring Task Force Budget

<table>
<thead>
<tr>
<th>Program Revenue</th>
<th>Riverside County Flood Control &amp; Water Conservation District</th>
<th>San Bernardino County Flood Control District</th>
<th>Orange County Flood Control District</th>
<th>Total Revenues</th>
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<tbody>
<tr>
<td>Stormwater Quality Standards Task Force</td>
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<tr>
<td>Middle Santa Ana River TMDL Task Force</td>
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<td>Flood Control Districts Direct Funding</td>
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<td><strong>Total Revenue</strong></td>
<td><strong>$143,212</strong></td>
<td><strong>$164,808</strong></td>
<td><strong>$29,396</strong></td>
<td><strong>$337,416</strong></td>
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<table>
<thead>
<tr>
<th>Summary Expenses</th>
<th>Riverside County Flood Control &amp; Water Conservation District</th>
<th>San Bernardino County Flood Control District</th>
<th>Orange County Flood Control District</th>
<th>Total Revenues</th>
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<tr>
<td>A. Administration</td>
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<td>B. SAR Bacteria Monitoring Program</td>
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<td>Task 1: Stakeholder Coordination</td>
<td>$2,525</td>
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<td>Task 2: Contract with Qualified Laboratory</td>
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<td>Task 3: Implement Monitoring Program</td>
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<td>Task 4: Annual Reporting</td>
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<td>Task 5: Data Management</td>
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<td><strong>Total Costs</strong></td>
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<td><strong>$164,808</strong></td>
<td><strong>$29,396</strong></td>
<td><strong>$337,416</strong></td>
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Criteria For Approval of New Roundtable Projects

• **Consistency** - replaces Stormwater Quality Standards (SWQS) and works in coordination with Middle Santa Ana River Pathogen (MSAR) TMDL Task Force

• **Capacity** - Sufficient staffing resources budgeted for FYE 2017. Staff resources anticipated to be adequate since Stormwater Quality Standards Task Force ends and new TF will only meet quarterly.

• **Capability** - carries forward the work performed by the SWQS Task Force Effort

• **Financial Feasibility** - stakeholder funded effort

• **Multiple Parties** - watershed-wide program

• **Facilitation** - Task Force effort facilitated by SAWPA staff

• **Data** - contributes water quality to expand our understanding of bacteria indicator impacts with the watershed
Critical Success Factors

- SAWPA has a strong reputation as watershed-wide, knowledgeable, neutral and trusted facilitator, leader, and administrator of contracted activities.

- Goals, scope, costs, resources, timelines, and the contract term are approved by the Commission before executing an agreement to participate in a roundtable group.

- Report and use results of roundtable’s work, leverage information and involvement for the benefit of SAWPA, its members, and other stakeholders.

- Adequate professional staff and resources to effectively provide facilitation, management, administrative and technical support to collaborative work efforts.
Recommendation

- Commission approve the Regional Water Quality Monitoring Task Force Agreement and authorize the transfer of $289,175 from fund 384-01 Middle Santa Ana River Pathogen TMDL Task Force to fund 386 Regional Water Quality Monitoring Task Force.
## MSAR TMDL Monies to Transfer

### Approved FY 2016-17 Budget: Middle Santa Ana River Pathogen TMDL Task Force

<table>
<thead>
<tr>
<th>Summary Expenses</th>
<th>Task Force Budget 2016-17</th>
<th>SAW Bacteria Monit Budget 2016-17</th>
<th>Tier 2 Source Eval 2016-17</th>
<th>Total Budget 2016-17</th>
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<tr>
<td><strong>Task Force:</strong> Administration (assumes quarterly meetings)</td>
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<td>Grant Preparation</td>
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<td><strong>Task Force:</strong> TMDL Compliance Expert</td>
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<td><strong>TMDL Implementation:</strong> Task 3 - Watershed-wide Monitoring Program</td>
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<td>$289,175</td>
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<td><strong>TMDL Implementation:</strong> Tasks 4 &amp; 5 - Source Evaluation / Management</td>
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<td><strong>Estimated Total Annual TMDL Implementation Budget</strong></td>
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<td><strong>Estimated Total Stakeholder Cash Contribution</strong></td>
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<td><strong>Contingency Reserve (estimated)</strong></td>
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### Detailed: Named TMDL Party Pro Rata Budget Cost Shares

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<tr>
<th>MSAR TMDL Task Force Participants Cost Shares:</th>
<th>Task Force Budget 2016-17</th>
<th>SAW Bacteria Monit Budget 2016-17</th>
<th>Tier 2 Source Eval 2016-17</th>
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<td>Agriculture</td>
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<td>note: adjustment for for over payment in FY 2015-16</td>
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<td>City of Pomona</td>
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<td><strong>Subtotal:</strong></td>
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Questions?
Roundtables Started in the last 15 years

2000
- LESJWA JPA
- Arundo Habitat Management
- Southern California Salinity Coalition

2002
- Storm Water Quality Standards Task Force

2003
- Santa Ana Sucker Fish Conservation Team

2004
- Lake Elsinore Canyon Lake TMDL Task Force
- Middle Santa Ana River TMDL Task Force

2007
- Imported Water Recharge Workgroup
- Basin Monitoring Program Task Force

2009
- Emerging Constituents Task Force

2011
- Forest First Program

2015
- Energy – Water DAC Grant Project
- Emerging Constituents Task Force
- Storm Water Quality Standards Task Force
- Imported Water Recharge Workgroup
- Basin Monitoring Program Task Force
Roundtables Concluded in the past 15 years

- SA River Stakeholder Outreach
- SAR Watershed Group
- SA River Trail Parkway
- GIS Initiative
- ACOE Feasibility Study
- PA16 Colton/Riverside
- Deer Creek Mitigation Support
- Riverside County Biosolids Task Force
- Chino Hills State Park Expansion
- Recreational Mapping
- Trail Marketing Support
- Big Bear TMDL Task Force
- Quail Valley