

Economic Benefit Analysis

CDCR - Mule Creek

Compliance Action	One-Time Non-Depreciable Expenditure				Annual Cost			Non-Compliance Date	Compliance Date	Penalty Payment Date	Discount Rate	Benefit of Non-Compliance
	Amount	Basis	Date	Delayed?	Amount	Basis	Date					
Interim Containment 17/18	\$ 141,750	GDP	9/15/2020	N				11/1/2017		9/15/2020	3.90%	149,771
Interim Containment 18/19	\$ 570,150	GDP	9/15/2020	N				11/1/2018		9/15/2020	4.00%	593,605
Interim Containment 19/20	\$ 548,100	GDP	9/15/2020	N				11/1/2019		9/15/2020	4.00%	557,998
Interim Pumping 17/18	\$ 21,572	GDP	1/1/2015	N				11/1/2017		9/15/2020	3.90%	25,160
Interim Pumping 18/19	\$ 86,765	GDP	1/1/2015	N				11/1/2018		9/15/2020	4.00%	99,719
Interim Pumping 19/20	\$ 83,410	GDP	1/1/2015	N				11/1/2019		9/15/2020	4.00%	93,738
Routine Sewer Cleaning					\$201,452	ECI	1/1/2015	11/1/2017	3/14/2020	9/15/2020	3.90%	558,176
Sewer Slip-lining	\$ 661,174	ECI	1/1/2015	Y				11/1/2017	9/15/2020	9/15/2020	3.90%	33,397

Income Tax Schedule:	Municipality	Total Benefit: \$	2,111,563
USEPA BEN Model Version:	Version 2019.0.0 (March 2019)		
Analyst:	Bryan Elder		
Date/Time of Analysis:	5/29/20 14:51		

Assumptions:

- Interim containment costs based on 90 rental tanks at \$35 per tank per day. Tank needs and cost were determined by Regional Board staff: 2017/18 - 45 days; 2018/19 - 181 days; 2019/20 - 174 days.
- Non-compliance date for containment costs assumed to be November 1st for the onset of wet season.
- Containment costs for 2017/18, 2018/19, and 2019/20 are assumed to be avoided.
- Interim pumping costs based on 3, 6" diesel pumps for duration of tank rentals specified above. Cost assumption: RSMeans, 2015, Heavy Construction Cost Data, 01 54 33 40 5500, pg. 522.
- Interim pumping costs indexed using Gross Domestic Product (GDP) index.
- February 1999). 3 miles per year based on CIWQS questionnaire entry for 9 miles of gravity, force main, and owned-lateral pipe). Cost assumption: RSMeans, 2015, Heavy Construction Cost Data, 33 01 30.16 6140 - Cleaning 4"-12" diameter - pg. 337.
- Routine Sewer Cleaning assumed to be annual starting at the onset of wet weather, November 1st, for each calendar year. First year of noncompliance assumed to be 11/1/2017.
- Routine Sewer Cleaning costs indexed using Employment Cost Index (ECI).
- Compliance date for routine sewer cleaning assumed to be 3/14/2020 based on CCTV/jetting work completed by CDCR and documented in the Storm Water Collection System Investigation Findings Report.
- Slip-lining assumed to apply to system in entirety based on review of CCTV findings. Costs are assumed to be delayed. Cost assumption: RSMeans, 2015, Heavy Construction Cost Data, 33 01 30.74 0150 - 8" diameter, HDPE lining, pg 338.
- Slip-lining compliance date assumed to be 9/15/2020.
- Slip-lining costs indexed using ECI.
- All RSMeans costs are adjusted for location based on Sacramento, CA - 108.7 factor, pg. 607.
- CDCR is assumed to operate the facility as a municipality.