

**Flood Control Project Maintenance**  
**2015 Structure Summary Report**  
**Overall Unit and Item Ratings**

**Sacramento County**

**American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05**

Overall Unit Rating	Rated Item	Item Rating
A	Operating Log	A
	Operation & Maintenance Manual	A
	Plant Building	A
	Communications	A
	Safety	A
	Cranes	A
	Pumps	A
	Power	A
	Motors, Engines, Fans & Gear Reducers	A
	Pump Control Systems	A
	Sumps/Wet Well	A
	Trash Racks	A
	Trash Rakes	A
	Sluice / Slide Gates	A
	Electric Gate Operators	A
	Manual Gate Operators	A
	Other Metallic Items	A
	Flap Gates	A
	Closure Structures	N
	Security Fencing	A
	Intake and Discharge Pipes	A

**American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43**

Overall Unit Rating	Rated Item	Item Rating
A	Operating Log	A
	Operation & Maintenance Manual	A
	Plant Building	A
	Communications	A
	Safety	A
	Cranes	A
	Pumps	A
	Power	A
	Motors, Engines, Fans & Gear Reducers	A
	Pump Control Systems	A
	Sumps/Wet Well	A
	Trash Racks	A
	Trash Rakes	N
	Sluice / Slide Gates	A
	Electric Gate Operators	A
	Manual Gate Operators	A
	Other Metallic Items	A
	Flap Gates	A
	Closure Structures	N
	Security Fencing	A
	Intake and Discharge Pipes	A

**Flood Control Project Maintenance**  
**2015 Structure Summary Report**  
**Overall Unit and Item Ratings**

**Sacramento County (cont.)**

**Mayhew Drain Closure Structure**

Overall Unit Rating	Rated Item	Item Rating
<b>M</b>	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	N
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	A
	Trash Racks	N
	Flap Gates	M
	Sluice/Slide Gates	A
	Electric Gate Operators	A
	Manual Gate Operators	A
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	A
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	A
	Monolith Joints	A
	Safety	A
	Operation & Maintenance Manual	U

**Flood Control Project Maintenance**  
**Unit Cover Sheet**  
**2015 Pumping Plant Inspection Results**

**Sacramento County**

Pumping Plant
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05

Pumping Plant Rating	A
Date of Inspection	07/20/2015
DWR Inspector	Maksim Khashchuk
Accompanied By	Manuel Ramirez County of Sacramento - DWR
	Elizabeth Carrington County of Sacramento - DWR

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05		07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>1</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Operating Log		38.584600 °	38.584600 °	
			-121.421417 °	-121.421417 °	
DWR ID	DWR_NA0050_13_t_2012_1				
Action/Comments					
Inspector Comments: Maintenance log is present on site at the pump station and is being used and updated.					

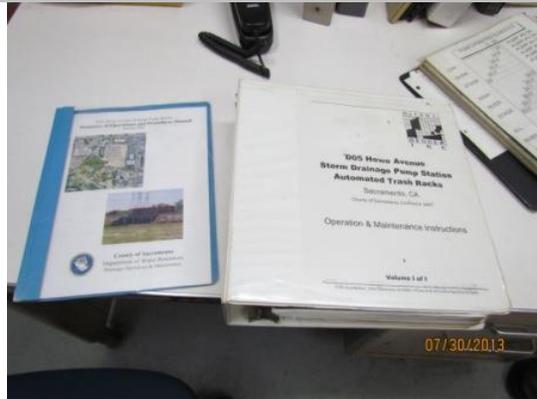
Photo 1 of 1 : ST\_2015\_NA0050\_13\_1\_20150731\_00022.jpg



Photo shows desk with maintenance log and O & M manuals on site.

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>2</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Operation & Maintenance Manual		38.584600 °	38.584600 °	
			-121.421417 °	-121.421417 °	
DWR ID	DWR_NA0050_13_t_2012_2				
Action/Comments					
Inspector Comments: O & M manuals are located on site. Stored in same location as Operating Log.					

Photo 1 of 1 : ST\_2015\_NA0050\_13\_2\_20150709\_00002.jpg



View of the O&M manual.

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>3</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Plant Building		38.584600 °	38.584600 °	
			-121.421417 °	-121.421417 °	
DWR ID	DWR_NA0050_13_t_2012_3				
Action/Comments					
Inspector Comments: Plant building appears to be in sound structural condition.					

Photo 1 of 2 : ST\_2015\_NA0050\_13\_3\_20150731\_00023.jpg



View of the pump building.

<p><b>* Location</b></p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p><b>** Rating</b></p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor &amp; Maintain</p>	<p><b>+ Issue Type</b></p> <p>Ma : Maintenance Deficiency Ob : Design &amp; System Obsolescence En : Enforcement</p>
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05		07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>3 (cont)</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Plant Building		38.584600 °	38.584600 °	
			-121.421417 °	-121.421417 °	
DWR ID	DWR_NA0050_13_t_2012_3				
Action/Comments					
Inspector Comments: Plant building appears to be in sound structural condition.					

Photo 2 of 2 : ST\_2015\_NA0050\_13\_3\_20150731\_00024.jpg



Another view of the pump building.

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>4</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Communications		38.584600 °	38.584600 °	
			-121.421417 °	-121.421417 °	
DWR ID	DWR_NA0050_13_t_2012_4				
Action/Comments					
Inspector Comments: Cellular service is available to pump station personnel.					

Photo 1 of 1 : ST\_2015\_NA0050\_13\_4\_20150731\_00025.jpg



View of the landline telephone on site.

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>5</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Safety		38.584600 °	38.584600 °	
			-121.421417 °	-121.421417 °	
DWR ID	DWR_NA0050_13_t_2012_5				
Action/Comments					
Inspector Comments: No apparent safety hazards observed.					

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05		07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>6</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Cranes		38.584600 °	38.584600 °	
			-121.421417 °	-121.421417 °	
DWR ID	DWR_NA0050_13_t_2012_6				
Action/Comments					
Inspector Comments: Cranes appear to be in operational condition.					

Photo 1 of 1 : ST\_2015\_NA0050\_13\_6\_20150731\_00026.jpg



View of the cranes inside the building.

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>7</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Pumps		38.584600 °	38.584600 °	
			-121.421417 °	-121.421417 °	
DWR ID	DWR_NA0050_13_t_2012_7				
Action/Comments					
Inspector Comments: Pumps appear to be properly maintained and in proper working order.					

Photo 1 of 1 : ST\_2015\_NA0050\_13\_7\_20150731\_00027.jpg



View of the pump motors.

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>8</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Power		38.584600 °	38.584600 °	
			-121.421417 °	-121.421417 °	
DWR ID	DWR_NA0050_13_t_2012_8				
Action/Comments					
Inspector Comments: Backup power generator is shared with the wastewater facility.					

Photo 1 of 1 : ST\_2015\_NA0050\_13\_8\_20150731\_00028.jpg



Photo shows security fencing and power source.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05		07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>10</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Motors, Engines, Fans & Gear Reducers		38.584600 °	38.584600 °	
			-121.421417 °	-121.421417 °	
DWR ID	DWR_NA0050_13_t_2012_10				
Action/Comments					
Inspector Comments: All items appear to be operational and properly maintained.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>11</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Pump Control Systems		38.584600 °	38.584600 °	
			-121.421417 °	-121.421417 °	
DWR ID	DWR_NA0050_13_t_2012_11				
Action/Comments					
Inspector Comments: These items appear to be operational and properly maintained.					

Photo 1 of 2 : ST\_2015\_NA0050\_13\_11\_20150731\_00029.jpg



View of the pump manual pump switches.

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>11 (cont)</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	

Photo 2 of 2 : ST\_2015\_NA0050\_13\_11\_20150731\_00030.jpg



View of the pump control panel.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05		07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>12</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Sumps/Wet Well			38.584600 °	38.584600 °
				-121.421417 °	-121.421417 °
DWR ID	DWR_NA0050_13_t_2012_12				
Action/Comments					
Inspector Comments: Sumps and wet wells are free of sediment and debris.					

Photo 1 of 2 : ST\_2015\_NA0050\_13\_12\_20150709\_00010.jpg



View of the well with adjustable pump height.

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>12 (cont)</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	

Photo 2 of 2 : ST\_2015\_NA0050\_13\_12\_20150731\_00031.jpg



Typical view of the wet well.

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>13</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Trash Racks			38.584600 °	38.584600 °
				-121.421417 °	-121.421417 °
DWR ID	DWR_NA0050_13_t_2012_13				
Action/Comments					
Inspector Comments: Trash racks are in place, properly maintained and clear of any debris.					

Photo 1 of 2 : ST\_2015\_NA0050\_13\_13\_20150731\_00032.jpg



View of the trash racks protecting the wells.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure		Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05			07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>13 (cont)</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Trash Racks		38.584600 °	38.584600 °	
			-121.421417 °	-121.421417 °	
DWR ID	DWR_NA0050_13_t_2012_13				
Action/Comments					
Inspector Comments: Trash racks are in place, properly maintained and clear of any debris.					

Photo 2 of 2 : ST\_2015\_NA0050\_13\_13\_20150731\_00033.jpg



View of the trash racks at the inlet.

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>14</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Trash Rakes		38.584600 °	38.584600 °	
			-121.421417 °	-121.421417 °	
DWR ID	DWR_NA0050_13_t_2012_14				
Action/Comments					
Inspector Comments: Trash rake appears to be properly maintained and in operational condition.					

Photo 1 of 2 : ST\_2015\_NA0050\_13\_14\_20150709\_00014.jpg



Extended photo of trash rakes.

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>14 (cont)</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	

Photo 2 of 2 : ST\_2015\_NA0050\_13\_14\_20150731\_00034.jpg



Close up photo of trash rake, note cleanliness and free of debris.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure		Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05			07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>15</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Sluice / Slide Gates		38.584600 °	38.584600 °	
			-121.421417 °	-121.421417 °	
DWR ID	DWR_NA0050_13_t_2012_15				
Action/Comments					
Inspector Comments: Slide gates appear to be in good operational condition.					

Photo 1 of 1 : ST\_2015\_NA0050\_13\_15\_20150731\_00035.jpg



View of the slide gate, typical.

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>16</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Electric Gate Operators		38.584600 °	38.584600 °	
			-121.421417 °	-121.421417 °	
DWR ID	DWR_NA0050_13_t_2012_16				
Action/Comments					
Inspector Comments: Electric gate operators appear to be in proper operating condition.					

Photo 1 of 2 : ST\_2015\_NA0050\_13\_16\_20150731\_00036.jpg



View of the gravity flow gate operator.

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>16 (cont)</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	

Photo 2 of 2 : ST\_2015\_NA0050\_13\_16\_20150731\_00037.jpg



View of the gate operators

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure		Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05			07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>17</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Manual Gate Operators		38.584600 °	38.584600 °	
			-121.421417 °	-121.421417 °	
DWR ID	DWR_NA0050_13_t_2012_17				
Action/Comments					
Inspector Comments: Manual gate operators appear to be in good working condition.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>18</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Other Metallic Items		38.584600 °	38.584600 °	
			-121.421417 °	-121.421417 °	
DWR ID	DWR_NA0050_13_t_2012_18				
Action/Comments					
Inspector Comments: Exposed metal parts are painted and protected from corrosion.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>19</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Flap Gates		38.584600 °	38.584600 °	
			-121.421417 °	-121.421417 °	
DWR ID	DWR_NA0050_13_t_2012_19				
Action/Comments					
Inspector Comments: Flap gates appear to be properly maintained and operational.					

Photo 1 of 2 : ST\_2015\_NA0050\_13\_19\_20150731\_00038.jpg



View of the flap gates on the waterside.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure		Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05			07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>19 (cont)</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Flap Gates		38.584600 °	38.584600 °	
			-121.421417 °	-121.421417 °	
DWR ID	DWR_NA0050_13_t_2012_19				
Action/Comments					
Inspector Comments: Flap gates appear to be properly maintained and operational.					

Photo 2 of 2 : ST\_2015\_NA0050\_13\_19\_20150731\_00039.jpg



View of the low flow flap gate.

LM Start	<b>0.00</b>	Rating **	N	Issue No.	<b>20</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Closure Structures		38.584600 °	38.584600 °	
			-121.421417 °	-121.421417 °	
DWR ID	DWR_NA0050_13_t_2012_20				
Action/Comments					
Inspector Comments: Separate closure structures other than sluice gates are not present.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>21</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Security Fencing		38.584600 °	38.584600 °	
			-121.421417 °	-121.421417 °	
DWR ID	DWR_NA0050_13_t_2012_21				
Action/Comments					
Inspector Comments: Area is enclosed by adequate security fencing.					

Photo 1 of 2 : ST\_2015\_NA0050\_13\_21\_20150709\_00020.jpg



View of the security fencing.

<p><b>* Location</b></p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p><b>** Rating</b></p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor &amp; Maintain</p>	<p><b>+ Issue Type</b></p> <p>Ma : Maintenance Deficiency Ob : Design &amp; System Obsolescence En : Enforcement</p>
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05		07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>21 (cont)</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Security Fencing			38.584600 °	38.584600 °
				-121.421417 °	-121.421417 °
DWR ID	DWR_NA0050_13_t_2012_21				
Action/Comments					
Inspector Comments: Area is enclosed by adequate security fencing.					

Photo 2 of 2 : ST\_2015\_NA0050\_13\_21\_20150709\_00021.jpg



View of the security fencing around the pumping facility.

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>22</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Intake and Discharge Pipes			38.584600 °	38.584600 °
				-121.421417 °	-121.421417 °
DWR ID	DWR_NA0050_13_t_2012_22				
Action/Comments					
Inspector Comments: Pipes do not appear to have breaks, corrosion, holes or cracks that would be a source of water leakage.					

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance**

**Unit Cover Sheet**

**2015 Pumping Plant Inspection Results**

**Sacramento County**

Pumping Plant	
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43	

Pumping Plant Rating	<b>A</b>
Date of Inspection	07/20/2015
DWR Inspector	Maksim Khashchuk
Accompanied By	Manuel Ramirez County of Sacramento - DWR
	Elizabeth Carrington County of Sacramento - DWR

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43		07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>1</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Operating Log		38.569692 °	38.569692 °	
			-121.374816 °	-121.374816 °	
DWR ID	DWR_NA0050_14_t_2012_1				
Action/Comments					
Inspector Comments: Operating log is kept on site and is being used and updated.					

Photo 1 of 1 : ST\_2015\_NA0050\_14\_1\_20150731\_00013.jpg



Photo shows operating log on site.

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>2</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Operation & Maintenance Manual		38.569692 °	38.569692 °	
			-121.374816 °	-121.374816 °	
DWR ID	DWR_NA0050_14_t_2012_2				
Action/Comments					
Inspector Comments: O & M Manual is kept on site, posted instructions are also written on dry erase board.					

Photo 1 of 1 : ST\_2015\_NA0050\_14\_2\_20150709\_00002.jpg

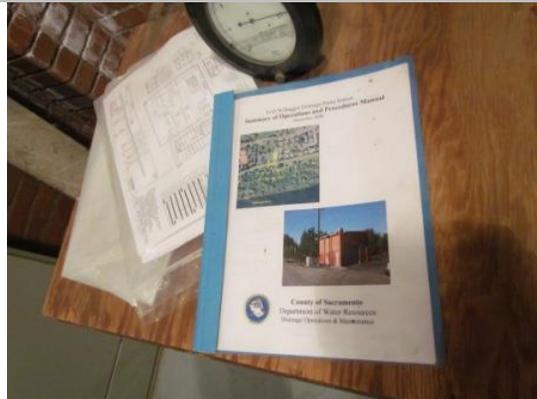


Photo shows O&M manual on site.

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>3</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Plant Building		38.569692 °	38.569692 °	
			-121.374816 °	-121.374816 °	
DWR ID	DWR_NA0050_14_t_2012_3				
Action/Comments					
Inspector Comments: Building appears to be in sound structural condition.					

Photo 1 of 1 : ST\_2015\_NA0050\_14\_3\_20150731\_00014.jpg



View of the pumping plant building.

<p><b>* Location</b></p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p><b>** Rating</b></p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor &amp; Maintain</p>	<p><b>+ Issue Type</b></p> <p>Ma : Maintenance Deficiency Ob : Design &amp; System Obsolescence En : Enforcement</p>
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure		Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43			07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>4</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Communications		38.569692 °	38.569692 °	
			-121.374816 °	-121.374816 °	
DWR ID	DWR_NA0050_14_t_2012_4				
Action/Comments					
Inspector Comments: Telephone on site and cellular service is available to the operators as well as radio communication in the operator's vehicle.					

No Photos

LM Start		Rating **	A	Issue No.	<b>5</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Safety		38.569692 °	38.569692 °	
			-121.374816 °	-121.374816 °	
DWR ID	DWR_NA0050_14_t_2012_5				
Action/Comments					
Inspector Comments: No safety hazards are visible.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>6</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Cranes		38.569692 °	38.569692 °	
			-121.374816 °	-121.374816 °	
DWR ID	DWR_NA0050_14_t_2012_6				
Action/Comments					
Inspector Comments: Crane appears to be in good working condition.					

Photo 1 of 1 : ST\_2015\_NA0050\_14\_6\_20150731\_00015.jpg



View of the crane above the pumps inside the building.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure		Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43			07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>7</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Pumps		38.569692 °	38.569692 °	
			-121.374816 °	-121.374816 °	
DWR ID	DWR_NA0050_14_t_2012_7				
Action/Comments					
Inspector Comments: Pumps appear to be properly maintained and operational.					

Photo 1 of 1 : ST\_2015\_NA0050\_14\_7\_20150731\_00016.jpg



View of the pump motors.

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>8</b>
LM End		Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Power		38.569692 °	38.569692 °	
			-121.374816 °	-121.374816 °	
DWR ID	DWR_NA0050_14_t_2012_8				
Action/Comments					
Inspector Comments: No visible deficiencies, backup generator is on site.					

Photo 1 of 1 : ST\_2015\_NA0050\_14\_8\_20150731\_00017.jpg



View of the backup generator.

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>10</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Motors, Engines, Fans & Gear Reducers		38.569692 °	38.569692 °	
			-121.374816 °	-121.374816 °	
DWR ID	DWR_NA0050_14_t_2012_10				
Action/Comments					
Inspector Comments: Items appear to be well maintained and operational.					

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure		Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43			07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>11</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Pump Control Systems		38.569692 °	38.569692 °	
			-121.374816 °	-121.374816 °	
DWR ID	DWR_NA0050_14_t_2012_11				
Action/Comments					
Inspector Comments: Controls appear well maintained and free of corrosion.					

Photo 1 of 2 : ST\_2015\_NA0050\_14\_11\_20150731\_00018.jpg



View of the manual pump controls switches.

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>11 (cont)</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	

Photo 2 of 2 : ST\_2015\_NA0050\_14\_11\_20150731\_00019.jpg



View of the pump controls panel.

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>12</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Sumps/Wet Well		38.569692 °	38.569692 °	
			-121.374816 °	-121.374816 °	
DWR ID	DWR_NA0050_14_t_2012_12				
Action/Comments					
Inspector Comments: Wet well is clear of debris.					

Photo 1 of 1 : ST\_2015\_NA0050\_14\_12\_20150731\_00020.jpg



View of the wet well.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43		07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>13</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Trash Racks		38.569692 °	38.569692 °	
			-121.374816 °	-121.374816 °	
DWR ID	DWR_NA0050_14_t_2012_13				
Action/Comments					
Inspector Comments: Trash rack is in place and free of debris.					

Photo 1 of 1 : ST\_2015\_NA0050\_14\_13\_20150731\_00021.jpg



Photo shows properly maintained trash rack free of debris.

LM Start	<b>0.00</b>	Rating **	N	Issue No.	<b>14</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Trash Rakes		38.569692 °	38.569692 °	
			-121.374816 °	-121.374816 °	
DWR ID	DWR_NA0050_14_t_2012_14				
Action/Comments					
Inspector Comments: There is no mechanical trash rake at this facility.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>15</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Sluice / Slide Gates		38.569692 °	38.569692 °	
			-121.374816 °	-121.374816 °	
DWR ID	DWR_NA0050_14_t_2012_15				
Action/Comments					
Inspector Comments: Slide gates appear to be properly maintained.					

Photo 1 of 1 : ST\_2015\_NA0050\_14\_15\_20150731\_00022.jpg



View of the slide gate.

<p><b>* Location</b></p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p><b>** Rating</b></p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor &amp; Maintain</p>	<p><b>+ Issue Type</b></p> <p>Ma : Maintenance Deficiency Ob : Design &amp; System Obsolescence En : Enforcement</p>
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure		Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43			07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>16</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Electric Gate Operators		38.569692 °	38.569692 °	
			-121.374816 °	-121.374816 °	
DWR ID	DWR_NA0050_14_t_2012_16				
Action/Comments					
Inspector Comments: Electronic gate operators appear to be properly maintained and in proper working order.					

Photo 1 of 1 : ST\_2015\_NA0050\_14\_16\_20150731\_00023.jpg



View of the gate controls.

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>17</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Manual Gate Operators		38.569692 °	38.569692 °	
			-121.374816 °	-121.374816 °	
DWR ID	DWR_NA0050_14_t_2012_17				
Action/Comments					
Inspector Comments: Manual gate controls appear to be properly maintained and look to be operational.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>18</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Other Metallic Items		38.569692 °	38.569692 °	
			-121.374816 °	-121.374816 °	
DWR ID	DWR_NA0050_14_t_2012_18				
Action/Comments					
Inspector Comments: Other metallic items are painted to protect from corrosion.					

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure		Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43			07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>19</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Flap Gates		38.569692 °	38.569692 °	
			-121.374816 °	-121.374816 °	
DWR ID	DWR_NA0050_14_t_2012_19				
Action/Comments					
Inspector Comments: Flap gates are visible and appear to be in working order, there was no flow to test for leakage.					

Photo 1 of 1 : ST\_2015\_NA0050\_14\_19\_20150731\_00024.jpg



View of the flap gates.

LM Start	<b>0.00</b>	Rating **	N	Issue No.	<b>20</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Closure Structures		38.569692 °	38.569692 °	
			-121.374816 °	-121.374816 °	
DWR ID	DWR_NA0050_14_t_2015_20				
Action/Comments					
Inspector Comments: Does not apply to this structure.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>21</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations		GPS Latitude/Longitude		
			Start	End	
Item	Security Fencing		38.569692 °	38.569692 °	
			-121.374816 °	-121.374816 °	
DWR ID	DWR_NA0050_14_t_2012_21				
Action/Comments					
Inspector Comments: Security fencing encloses standby generator. Building is securely locked.					

Photo 1 of 1 : ST\_2015\_NA0050\_14\_21\_20150731\_00025.jpg



View of the security fencing.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43		07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>22</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Pump Stations			GPS Latitude/Longitude	
				Start	End
Item	Intake and Discharge Pipes			38.569692 °	38.569692 °
				-121.374816 °	-121.374816 °
DWR ID	DWR_NA0050_14_t_2012_22				
Action/Comments					
Inspector Comments: No visible defects in pipes.					

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance**  
**Unit Cover Sheet**  
**2015 Structure Inspection Results**

**Sacramento County**

Structure
Mayhew Drain Closure Structure

Structure Rating	<b>M</b>
Date of Inspection	07/20/2015
DWR Inspector	Maksim Khashchuk
Accompanied By	Manuel Ramirez County of Sacramento - DWR
	Elizabeth Carrington County of Sacramento - DWR

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure	Structure Length	Inspection Start/End	Inspector
Mayhew Drain Closure Structure		07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>2</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation & Obstructions		38.569898 °	38.569898 °	
			-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_2				
Action/Comments					
Inspector Comments: No obstructive vegetation has been observed at the time of inspection.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>3</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Shoaling / Sedimentation		38.569898 °	38.569898 °	
			-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_3				
Action/Comments					
Inspector Comments: No shoaling or sedimentation observed.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>4</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.569898 °	38.569898 °	
			-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_4				
Action/Comments					
Inspector Comments: No erosion or bank instability observed.					

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure	Structure Length	Inspection Start/End	Inspector
Mayhew Drain Closure Structure		07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	N	Issue No.	<b>5</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Revetments		38.569898 °	38.569898 °	
			-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_5				
Action/Comments					
Inspector Comments: The channel is concrete lined and there is no need for revetment at this time.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>6</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.569898 °	38.569898 °	
			-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_6				
Action/Comments					
Inspector Comments: No encroachments present at the time.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>7</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Culverts: Inlets / Outlets		38.569898 °	38.569898 °	
			-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_7				
Action/Comments					
Inspector Comments: Structure inlet and outlet are clear of debris and appear to function as intended.					

Photo 1 of 1 : ST\_2015\_NA0050\_220\_7\_20150731\_00007.jpg



View of the structure inlet.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure		Structure Length	Inspection Start/End	Inspector
Mayhew Drain Closure Structure			07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>8</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Culverts: Breaks / Holes / Cracks		38.569898 °	38.569898 °	
			-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_8				
Action/Comments					
Inspector Comments: No significant cracking or breaks observed.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>9</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Metal Pipes		38.569898 °	38.569898 °	
			-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_9				
Action/Comments					
Inspector Comments: All metal pipes appear to be in good working condition.					

No Photos

LM Start	<b>0.00</b>	Rating **	N	Issue No.	<b>10</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Trash Racks		38.569898 °	38.569898 °	
			-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_10				
Action/Comments					
Inspector Comments: There are no trash racks installed at this structure.					

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure	Structure Length	Inspection Start/End	Inspector
Mayhew Drain Closure Structure		07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>11</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Flap Gates			38.569898 °	38.569898 °
				-121.353360 °	-121.353360 °
DWR ID	DWR_NA0050_220_t_2014_11				
Action/Comments					
Inspector Comments: Two of the four flap gates were propped open by debris.					

Photo 1 of 3 : ST\_2015\_NA0050\_220\_11\_20150731\_00008.jpg



Close up view of the flap gate.

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>11 (cont)</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : ST\_2015\_NA0050\_220\_11\_20150731\_00009.jpg



View of the flap gates.

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>11 (cont)</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : ST\_2015\_NA0050\_220\_11\_20150731\_00010.jpg



View of a flap gate with debris propping the gate open.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure		Structure Length	Inspection Start/End	Inspector
Mayhew Drain Closure Structure			07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>12</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Sluice/Slide Gates		38.569898 °	38.569898 °	
			-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_12				
Action/Comments					
Inspector Comments: Slide gates appear to be in proper working order.					

Photo 1 of 1 : ST\_2015\_NA0050\_220\_12\_20150731\_00011.jpg



View of a slide gate.

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>13</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Electric Gate Operators		38.569898 °	38.569898 °	
			-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_13				
Action/Comments					
Inspector Comments: Electric gate operators appear to be in working condition with manual controls installed.					

Photo 1 of 1 : ST\_2015\_NA0050\_220\_13\_20150731\_00012.jpg



View of the gate mechanism controls.

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>14</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Manual Gate Operators		38.569898 °	38.569898 °	
			-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_14				
Action/Comments					
Inspector Comments: Gate operation controls have both automatic and manual system installed.					

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure	Structure Length	Inspection Start/End	Inspector
Mayhew Drain Closure Structure		07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>15</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Concrete Surfaces		38.569898 °	38.569898 °	
			-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_15				
Action/Comments					
Inspector Comments: Concrete surfaces appear to be in good condition.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>16</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Concrete Tilting / Settlement		38.569898 °	38.569898 °	
			-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_16				
Action/Comments					
Inspector Comments: Concrete surfaces appear to be intact and no significant displacement observed.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>17</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Concrete Foundations		38.569898 °	38.569898 °	
			-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_17				
Action/Comments					
Inspector Comments: Structure foundation appears to be in good condition.					

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure		Structure Length	Inspection Start/End	Inspector
Mayhew Drain Closure Structure			07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>18</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Security Fencing		38.569898 °	38.569898 °	
			-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_18				
Action/Comments					
Inspector Comments: The facility appears to have adequate security.					

Photo 1 of 1 : ST\_2015\_NA0050\_220\_18\_20150731\_00013.jpg



View of the security fencing around the facility.

LM Start	<b>0.00</b>	Rating **	N	Issue No.	<b>19</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Closure Structures		38.569898 °	38.569898 °	
			-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_19				
Action/Comments					
Inspector Comments: Does not apply to this structure.					

No Photos

LM Start	<b>0.00</b>	Rating **	N	Issue No.	<b>20</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Trash Rakes		38.569898 °	38.569898 °	
			-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_20				
Action/Comments					
Inspector Comments: There are no trash rakes at this structure.					

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure		Structure Length	Inspection Start/End	Inspector
Mayhew Drain Closure Structure			07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>21</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Other Metallic Items		38.569898 °	38.569898 °	
			-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_21				
Action/Comments					
Inspector Comments: All metallic surfaces appear to be free of rust and in good condition.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>22</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Monolith Joints		38.569898 °	38.569898 °	
			-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_22				
Action/Comments					
Inspector Comments: All monolith joints appear to be in good condition.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>23</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Safety		38.569898 °	38.569898 °	
			-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_23				
Action/Comments					
Inspector Comments: Safety equipment for a person to evacuate the channel in case of a fall are installed. All other safety features appear to be adequate.					

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Structure 2015**

**Sacramento County**

Structure	Structure Length	Inspection Start/End	Inspector
Mayhew Drain Closure Structure		07/20/2015 07/20/2015	Maksim Khashchuk

LM Start	<b>0.00</b>	Rating **	U	Issue No.	<b>24</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Operation & Maintenance Manual		38.569898 °	38.569898 °	
			-121.353360 °	-121.353360 °	
DWR ID	DWR_NA0050_220_t_2014_24				
Action/Comments					
Inspector Comments: O&M Manual has not been finalized and submitted to the USACE.					

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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