





Individual Permit for Stormwater Update to the Northern New Mexico Citizen's Advisory Board



- ☐ Current Individual Permit for Stormwater (IP)
- □ Progress Under the Current IP
- □ Problems with the Current IP
- ☐ Renewal Application and Response
- □ Visit to U.S. Environmental Protection Agency (EPA)
- □ Plan for Reapplication
- Workshops with New Mexico Environment Department (NMED), EPA, and Communities for Clean Water (CCW)
- Next Steps



- National Pollutant Discharge Elimination System (NPDES) permit implementation of the Clean Water Act issued November 2010
- ☐ Stormwater discharges from solid waste management units (SWMU) and areas of concern (AOC) only
 - Does NOT address outfall discharges,
 - □ Does NOT address stormwater discharges from industrial activities (Multi-Sector General Permit (MSGP))
 - Does NOT address developed runoff from stormwater (potential future Municipal Separate Sewer System (MS4))



Current IP (cont.)

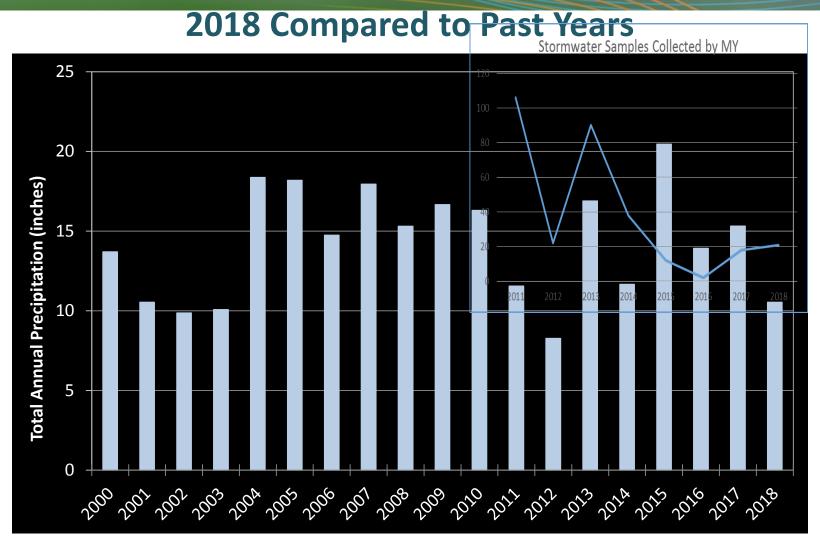
- Baseline control measures for all SWMUs & AOCs installed within two years
- ☐ Target Action Levels (TAL) are screening levels
 - To determine if corrective actions are needed
 - Based on New Mexico Water Quality Standards (NMWQS)
 - ☐ A TAL exceedance is not by itself an NMWQS exceedance
- ☐ Four Paths to Completion of Corrective Action
 - Analytical Results are below TALs
 - ☐ Control measures totally retain and prevent discharge of stormwater
 - Control measures to totally eliminate exposure
 - □ Certificates of completion under NMED's Consent Order



Current IP (cont.)

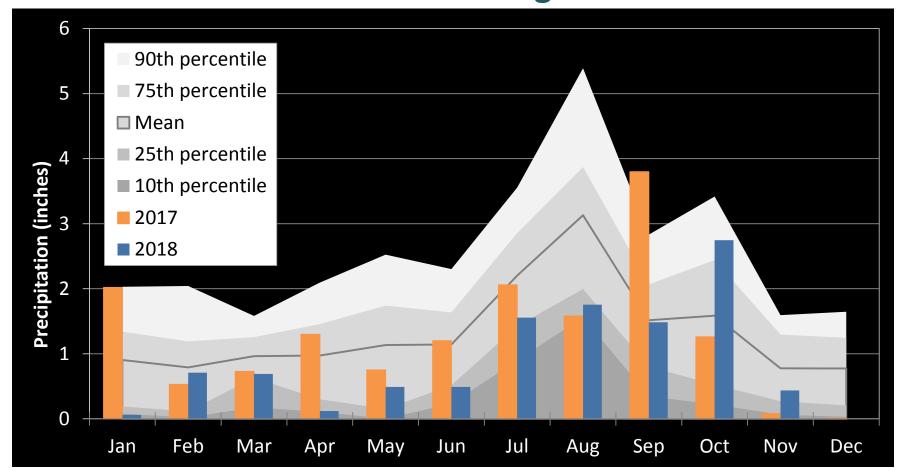
- □ Alternative Compliance allowed for:
 - □ Force majeure,
 - ☐ Background concentrations of pollutants or concern,
 - ☐ Impracticality of further control measures, or
 - ☐ Pollutants of concern contributed by sources beyond control
- Annual Stormwater Discharge Pollution Prevention Plan (SDPPP) and Annual Compliance Status Report
- ☐ IP Website including all posted documents and semi-annual public meetings





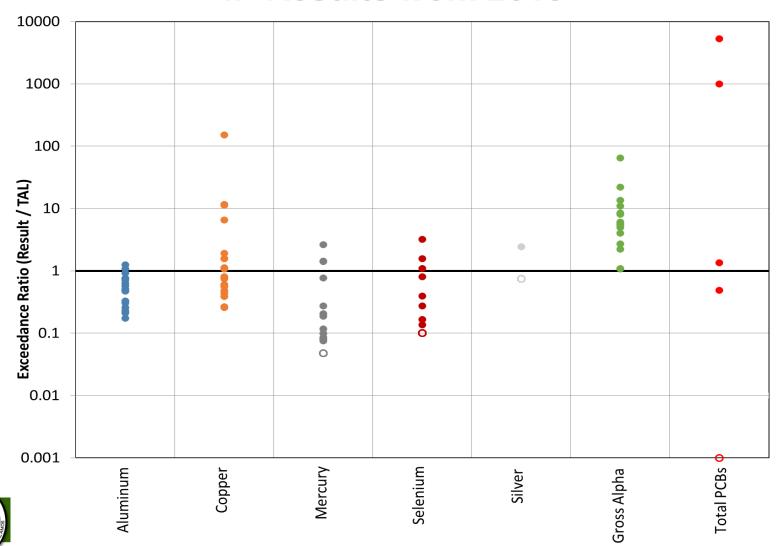


2018 Monitoring Year





IP Results from 2018



IP Results from 2018

Blue = not Site-related
Pink = potentially
Site-related

	TAL Exceedances						
2018 IP Sampling Locations	Aluminum	Copper	Mercury	Selenium	Silver	Gross alpha	Total PCB
3M-SMA-0.2	Χ	Χ	Х	Χ		Χ	
A-SMA-1.1	Χ	Х	Χ	Х		Х	
A-SMA-3	Χ	Х				Х	Χ
A-SMA-4	Χ	Х	Χ	Х		Х	
CDV-SMA-7	Χ	Х	Х			Х	
CDV-SMA-9.05	Χ	Х				Х	
CHQ-SMA-1.02		Х					
CHQ-SMA-1.03	Χ	Х				Х	Х
CHQ-SMA-2	Χ	Х	Χ			Х	
CHQ-SMA-4	Χ	Х	Х	Х		Х	Χ
CHQ-SMA-7.1	Χ	Х	Χ			Х	
PJ-SMA-3.05	Χ	Х				Χ	
PJ-SMA-5		Χ					
PT-SMA-4.2						Χ	
PJ-SMA-11	Χ	Χ	Χ	Χ		Х	
PJ-SMA-18	Χ	Χ				Х	Χ
STRM-SMA-1.5	Χ	Χ	Χ		Χ	Χ	



TAL Exceedances (2010 TALs)

		•			•					
		# SMAs with no sample	required # SMAs	total # SMAs sampled	# SMAs not exceeding	# SMAs exceeding	TAL basis	Freq.	Analyte	No.
	7	27	78	51	8	43	ATAL	84%	PCBs*	1
Tan E analystas	6	86	250	164	59	105	ATAL	64%	gross alpha**	2
Top 5 analytes	6	86	250	164	80	84	MTAL	51%	copper (F)	3
exceeding TALs	6	86	250	164	125	39	MTAL	24%	aluminum (F)	4
•	6	86	250	164	144	20	MTAL	12%	zinc (F)	5
	6	86	250	164	154	10	ATAL	6%	mercury (UF)	6
	6	86	250	164	156	8	MTAL	5%	mercury (UF)	6
	6	86	250	164	157	7	ATAL	4%	radium	7
	6	86	250	164	160	4	MTAL	2.4%	silver (F)	8
	23	2	66	43	42	1	ATAL	2.3%	RDX	9
	6	86	250	164	161	3	MTAL	1.8%	cadmium (F)	10
	6	86	250	164	161	3	ATAL	1.8%	selenium (UF)	11
	6	86	250	164	161	3	MTAL	1.8%	lead (F)	12
	6	86	250	164	163	1	ATAL	0.6%	arsenic (F)	13
	6	86	250	164	164	0	MTAL	0.0%	arsenic (F)	13
	6	86	250	164	164	0	ATAL	0.0%	antimony (F)	14
	6	86	250	164	164	0	ATAL	0%	boron (F)	15
	6	86	250	164	164	0	MTAL	0%	chromium (F)	16
24 analytes	6	86	250	164	164	0	ATAL	0%	cobalt (F)	17
-	6	86	250	164	164	0	MTAL	0%	nickel (F)	18
consistently not	6	86	250	164	164	0	MTAL	0%	selenium (UF)	11
exceeding TALs	6	86	250	164	164	0	ATAL	0%	thallium (F)	19
exceeding IALS	6	86	250	164	164	0	ATAL	0%	vanadium (F)	20
	0	90	250	160	160	0	both	0%	cyanide (WAD)	21
	1			2		0	ATAL	0%	dioxin	22
	.5	15	36	21	21	0	both	0%	3 SVOCs	25
	3		4	1	1	0	both	0%	11 pesticides	36
	3	2		43		0	ATAL	0%	TNT	37
				12	1	11	MTAL	92%	aftaluminum (UF)	
				14	14	0	both	0%	aft mercury (F)	
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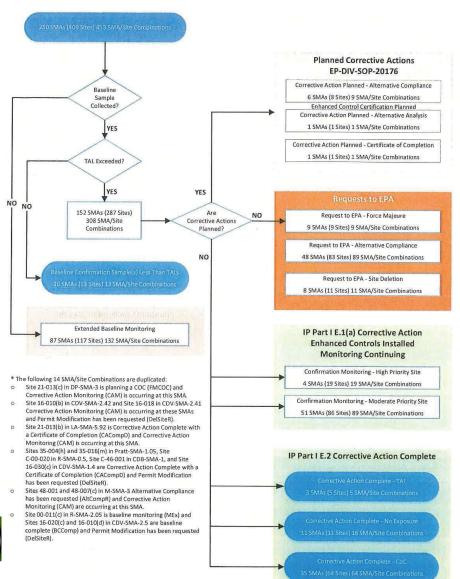




OFFICE OF ENVIRONMENTAL MANAGEMENT

Progress under the IP (cont.)

Individual Permit Path to Corrective Action Completion - 5/31/2018

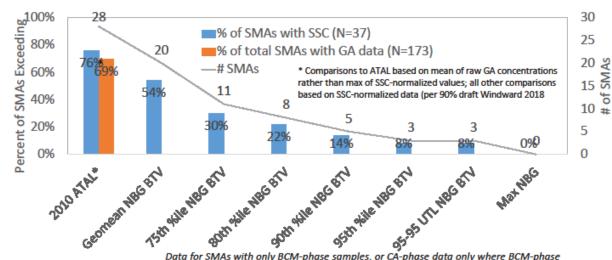


- 83 sites-Alternative Compliance
- 11 sites-deletions requested
- 105 sites-confirmation monitoring
- 5 sites-corrective action complete - <TALs
- 11 sites-corrective action complete – no exposure
- 64 sites-corrective action complete – Certificates of Completion



DRAFT for Discussion

Gross Alpha Threshold Exceedances for SMAs with Available Data (results used in previous slide)



11/14/2018 Webinar #3 Confirmation Monitoring, SIP & SSD Data for SMAs with only BCM-phase samples, or CA-phase data only where BCM-phase samples completed. Plot is limited to 37 SMAs with concurrent SSC and gross alpha sample results thru 2018.

SMA – Site Monitoring Areas

NBG - Natural BackGround

BTV - Background Threshold Value

UTL - Upper Threshold Limit





Problems with the IP

- □ 2 Paths to Completion of Corrective Action unusable
 - ☐ Control measures totally retain and prevent discharge (Part I, E.2.(b))
 - ☐ Certificates of completion under NMED's Consent Order (Part I, E.2.(d))
- ☐ Natural and developed backgrounds weren't accepted
 - Natural background data set considered too small by Surface Water Quality Bureau (SWQB)
 - ☐ Developed background/urban runoff impacting alternative compliance
- ☐ Process overly complicated and loops back to redo work
- □ EPA staffing constraints for document review (e.g., alternative compliance)



Renewal Application and Response

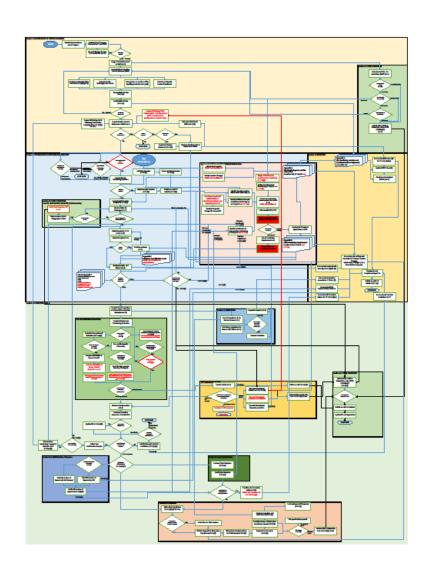
- □ 2014 submitted renewal application (Vol. I, Vol. II, draft)
- □ 2015 submitted supplement with updated appendices
 - ☐ new sites and SMAs,
 - sampling constituents,
 - permitted features,
 - control measures installed
- □ EPA received substantial comments and a State (NM) certification that EPA could not reconcile





Renewal Application and Response (cont.)

- Map of complicated draft renewal permit issued by EPA for comment
- □ Red text, boxes and lines are problematic and likely contributed to EPA not issuing the renewal permit



Not Meant to be Readable







- ☐ EM-LA and Contractor visited EPA in June 2018
 - ☐ Identified half a dozen items we thought EPA was having problems with
- ☐ EPA was none-specific in response
 - ☐ Did indicate that if we worked on what we mentioned, they would have an easier time issuing a permit
- ☐ Agreed we could update application and restart process
 - ☐ Progress since submittal/supplement
 - New information from additional Consent Order investigations
 - Suggested changes to text





Plan for Reapplication

- ☐ Met with NMED-SWQB, EPA, and CCW on 09/19/2019
- Workshops on problem sections
- □ Complete application and red-line strikeout text
- General agreement before submittal
 - □ NMED-SWQB, EPA, and CCW
- ☐ Submit and discuss package with EPA
- ☐ EPA develop/publish new draft IP for public comment
- NMED-SWQB issue state certification on new draft IP
- ☐ EPA issue revised IP



Plan for Reapplication (cont.)

- ☐ Delete 24 analytes consistently not exceeding TALs
- Update TALs
 - ☐ Hardness, aluminum, Biotic Ligand Model (BLM), BTV, etc.
 - Address background
- □ Reorganize confirmation monitoring sequencing
 - ☐ For annual Sampling Implementation Plan (SIP) inputs
- ☐ Identification of site-related constituents
- Modify site removal/deletion criteria
- ☐ Fix run-on and run-off calculations
 - □ Address natural and developed backgrounds
- □ Connect previous work (e.g., alternative compliance) to new background information without starting over



Workshops with NMED, EPA, and CCW

- ☐ #1 on Stormwater BTVs
- ☐ #2 on Aluminum and BLM
- ☐ #3 on Confirmation Monitoring, SIP, and Site-Specific Demonstration (SSD)
 - ☐ Talked specific alternative text possibilities
- #4 on Paths to Completion
 - ☐ Talked specific alternative text possibilities
- ☐ #5 on Pending Requests to EPA
 - ☐ Talked specific alternative text possibilities



- ☐ Finish revisions to Volumes I and II (January)
- □ Develop red-line-strike-out text for problem areas (January/February)
- ☐ Workshops on red-line-strike-out text (January/February)
- Work with NMED-SWQB on potential state certification
- ☐ Prepare package for submittal to EPA
- □ EPA is furloughed submit package after Government
 Shutdown ends gives us some additional time





Questions

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